

CURRICULUM VITAE – BRUCE MILLER, M.S., CIH

Area of Expertise

- Comprehensive Industrial Hygiene and Safety
- Department of Energy Former Worker Retrospective Exposure Assessments
- Expert Health and Safety Consulting Services
- Workplace Accident Investigation and Regulatory Compliance
- Microbial Investigations and Indoor Air Quality

Education & Certification

- M.S., Industrial Hygiene, Central Missouri State University, Warrensburg, MO, 1993
- B.S., Industrial Technology, Southern Illinois University, Carbondale, IL, 1990
- A.A.S., Bioenvironmental Engineering Technology, Community College of the Air Force, 1988
- Certified Industrial Hygienist (CIH), American Board of Industrial Hygiene, (ABIH) #6439

Professional Organizations & Memberships

- Member, American Industrial Hygiene Association (AIHA)
- Member, American Conference of Governmental Industrial Hygienist (ACGIH)
- Member, Health Physics Society (HPS)
- Associate Member, American College of Occupational and Environmental Medicine (ACOEM)

SUMMARY OF QUALIFICATIONS

Mr. Miller is a board-certified industrial hygienist with more than 33 years of experience in comprehensive health and safety practice and 25 years of specialized environmental remediation and construction consulting experience at the Department of Energy (DOE), U.S. Army Corps of Engineers (USACE), and Department of Defense (DOD) clients and sites. He has managed and supervised health, safety, and health physics personnel and provided project management, planning, regulatory support, and oversight to numerous environmental remediation, waste management, construction, decontamination and decommissioning, and microbial and indoor air quality investigations, and remediation projects. He has served as an expert conducting investigations and preparing expert reports for both plaintiffs' and defendants' cases. Specialized project and legal experience researching, developing expert reports, and testifying in worker retrospective occupational exposure assessments and causation illness compensation court cases related to former defense weapons facilities and DOE national laboratories workers.

Mr. Miller has developed and implemented comprehensive health and safety programs and the supporting field documents to meet federal (DOE, DOD, USACE, Federal Aviation Authority (FAA), Department of Interior (DOI), and Homeland Security (HLS)), state, and local regulatory compliance. He has provided project management, direct health, safety, environmental, radiological field oversight of remedial investigation/feasibility study (RI/FS), remedial design/remedial action (RD/RA), construction and D&D projects at some of the most complex hazardous and mixed waste sites in the country. Projects have included large scale excavation, drilling, sampling; hurricane recovery; nuclear facility construction and demolition, and waste retrieval and characterization in radioactive and transuranic (TRU) mixed waste pits; remediation of high explosive fragment sites, and clearance of unexploded ordinance throughout the DOE Complex and numerous DOD facilities. He has broad-based experience in health, safety, and radiological regulatory compliance at national

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DOE laboratories, DOD facilities, US Navy facilities, numerous USACE Districts, construction sites, for industrial and commercial clients. He currently serves on national committees for the American Industrial Hygiene Association (AIHA) (Past Chair/Member of the Law Committee & Member of Indoor Environmental Quality Committee member) and was a past Chair of the AIHA's Consultants Special Interest Group (SIG).

CURRENT AND PAST EXPERT LEGAL WORK

Claimant Expert – Board of Industrial Insurance Appeals, State of Washington, Employer Motions for Summary Judgement, Washington Labor & Industry Cases (February 2020 – Present) - Serving as an industrial hygiene expert for current, former employees, and deceased (spouse) (Claimants) of the U.S. Department of Energy Hanford Site, who have filed affirmative claims under the “Hanford Site Employees—Occupational Disease Presumption,” or Washington Substitute House Bill 1723 (“HB 1723”) law. These claims are being challenged by the Department of Energy. Expert services have been provided through contracts with the State of Washington Attorney General’s Office (AGO) and other law offices supporting these Claimants. Work scope includes providing expert consultation, preparing declaration opinions (as needed), and testifying in discovery and perpetuating depositions and Washington State Board of Industrial Insurance hearings. Expert testimony addresses current and past exposures directly related to Claimants’ presumptive claims illness or diagnosis. Specific expertise includes detailed research of worker exposures to Hanford’s chemicals, hazardous agents, and radiological hazards, examination of historic industrial hygiene and radiological exposure data, interviewing claimants, reviewing medical records, occupational medical surveillance data, developing claimant-specific exposure profiles and qualitative exposure assessments, review of toxicological and epidemiological data, studies, and NIOSH cohorts for relevant exposure agents, and evaluating claimant medical diagnosis against known toxicological chemicals or radiation for specific occupation exposure causation. Mr. Miller has provided testimony in more than 50 cases.

Defendant Expert – Case No. 4:18-cv-05189, United States of America, Plaintiff, v. State Of Washington; Jay Inslee, in his official capacity as Governor of the State of Washington; Washington State Department of Labor & Industries; Joel Sacks, in his official capacity as Director of the Washington State Department of Labor & Industries December 2018 – December 2019) Served as an industrial hygiene expert for the State of Washington Attorney General’s Office (AGO) (Defendant), in the aforementioned case involving United States Department of Justice that has brought a suit against the State of Washington based on the enactment of a workers’ compensation law, entitled “Hanford Site Employees—Occupational Disease Presumption,” or Washington Substitute House Bill 1723 (“HB 1723”) claiming that HB 1723 singles out and discriminates against the Federal Government. Mr. Miller provided expert consultation and rendering opinions related to the current and past exposures of Hanford workers for the AGO within the context of this lawsuit. U.S. District Court ruled against the U.S. Department of Justice in this case. The District Court decision affirming the WA State statute was appealed to the U.S. 9th Circuit Court of Appeals.

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Plaintiff Expert - Hanford Challenge, et al. v. United States Department of Energy and Washington River Protection Solutions, No. 4:15-cv-05086 – Settlement Agreement (March 2017 – December 2019) Mr. Miller served as the ‘Qualified Technical Person’ providing technical reviews and comments of several Hanford contractor respiratory protection program documents in support of the Washington Attorney General’s Office (AGO) under the Settlement Agreement with the U.S. Department of Energy. Technical reviews of numerous respirator cartridge testing reports and supporting documents (prepared by the Pacific Northwest National Laboratory on behalf of Washington River Protection Solutions as well as independent third-party consultants) were completed and comments provided the AGO. Cartridge testing was conducted to determine the ability of cartridges to effectively filter and absorb vapor and gases from the Hanford Tank Farm vapor phase at various tank wastes and to estimate cartridge service-life to develop cartridge changeout schedules. Technical reports were evaluated based on test design and chemical analysis methodology, National Institute for Occupational Safety and Health (NIOSH) respirator cartridge design and testing criteria, manufacturer’s cartridge NIOSH technical approvals, and known Hanford contaminants of concern properties.

Plaintiff Expert – Case No. 4:15-cv-05087, State of Washington, Plaintiff, v. Ernest J. Moniz, Secretary of the United States Department of Energy, the United States Department of Energy, and Washington River Protection Solutions LLC, Defendants (May 2016 – September 2018) – Served with a team of experts as the State of Washington Attorney General’s Office (AGO) (Plaintiff) industrial hygiene expert in this case involving long standing worker exposures to tank farm vapors at the Department of Energy, Hanford Site Tank Farms. Services included review of the AGO complaint, declaration for injunctive relief, discovery documents and reports, worker exposure incidents and medical surveillance, plaintiff regulatory requirements, and contractor implementing program and procedures and other related expert reports, declarations and depositions. Researched tank farm processes and history, contractor health and safety programs, DOE, NIOSH, and Government Accountability Office inspection reports, tank farm industrial hygiene exposure assessment and characterization, industrial hygiene program and implementation, toxicological data for tank content and vapors, and nature and extent of past worker exposure events. Prepared declarations in support of the AGO’s injunctive relief and supplemental preliminary injunction as well as draft expert reports. Additional support included preparing potential lines of inquiry for Defendant (Department of Energy and Contractor) health and safety experts and management personnel depositions related to worker health and safety and exposure events. Provided expertise on exposure mitigation, work process, engineering controls, personal protective equipment, respirator cartridge testing, medical surveillance, and ongoing technical expertise and support during settlement discussions with the U.S. Department of Justice.

Defendant Expert – Case No. CV-2014-300, Danita Bachman and Clayton Snook (P) v. The Jud 2000 Trust, Eugene D. Jud and Janice A. Jud, Trustees; Cid E. Hayden and John Doe Persons or Entities I through V (D), State of Idaho, in and for the County of Lemhi (August 2015 – April 2017) – Served as Defense industrial hygiene expert investigating water damage and subsequent microbial growth at the Plaintiff’s residence. Plaintiff asserts Defendants irrigation methods are flooding the crawlspace of the home. Conducted an investigation of the residence including visual and physical inspection, testing of building materials for moisture content, performed thermo-imaging of building materials, and collected air samples for laboratory analysis to quantify types of

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mold spores present; reviewed Plaintiff's expert's report and methodology and prepared lines of inquiry for Defendant counsel use during Plaintiff expert's deposition; prepared and submitted expert report with opinions to Defense counsel. Testified at trial as Defense expert for nature and extent of water damage and mold growth, sources of water damage and mold growth and required remediation for reoccupancy.

Plaintiff Expert - Case 4:15-cv-00165-EJL, Ralph Stanton (P) v. Battelle Energy Alliance (D), U.S. District Court, District of Idaho (February 2015 – October 2015) – Served as Plaintiff safety and health expert examining nature of accident and exposure of workers to plutonium contamination at the Zero Power Physics Reactor facility located at the Department of Energy, Idaho National Engineering Laboratory. Reviewed all relevant radiological, safety and industrial hygiene data and procedures; operational procedures and work packages; prepared lines of inquiry for deposition of Defendant key management and technical staff; reviewed deposition transcripts and supported Plaintiff counsel during and following depositions. Served as the technical manager and prepared the scope of work for radiological survey of Plaintiff's home by third party and analysis of all samples collected. This case was settled prior to the completion of my expert report and opinions, deposition or expert testimony.

Defendant Expert - Case No. 4:10-CV-184-EJL, Roy Santo (P) v. Acuity Brands Lighting, Inc; Lon Ricks Electric, Inc. (D), United States District Court for the District of Idaho – Served as Defense safety and health expert for the construction accident case involving a fall from a ladder resulting in a severe laceration from an exposed metal light fixture resulting in a permanent disability. Reviewed nature of the accident and conducting an accident investigation and multiple root causal analysis based upon available records and photos. Analysis consisted of reviewing all available accident reports and witness statements; Occupational Health and Safety Administration construction regulatory review of applicable standards including multi-employer worksites; ladder manufacturer's use and limitation; Plaintiff's and Defendant's witness's deposition review; and developed lines of inquire for Defendant counsel for Plaintiff deposition. Prepared expert report with opinions and submitted to Defense counsel. This case was settled prior to my being called as an expert to offer my opinions for deposition or at trial.

Plaintiff Expert - Case No. CV-09-4235, Scherr & Scherr, LLC (P) v. Kirk Wolfe (D), District Court of the Seventh Judicial District of the State of Idaho in and for the County of Bonneville – Served as Plaintiff industrial hygiene expert in case involving construction defects and latent damage caused by water damage to Plaintiff's professional building during construction. This expert work followed a water damage and microbial assessment of the Plaintiff's building (The Sleep Institute). Expert analysis on the nature and extent of the water damage was conducted. Analysis included a complete review of my previously microbial assessment and report; review of the construction timeline and material storage practices on site; analysis of the weather condition at the time of the construction activities where building materials were not enclosed; comparative water damage analysis with other assessments that I had conducted. My expert report was prepared and submitted to Plaintiff counsel. This case was settled prior to my being called as an expert to offer my opinions at deposition and trial.

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Plaintiff Expert – Case No. CV-06-275, Sherry Fuqua V. Paul Olsen dba Paul Olsen Trucking; Paul Olsen, Individually; Marion Jerry Weaver, and John Does I-V, District Court of the Fifth Judicial District of the State of Idaho, in and for the County of Blaine – Served as Plaintiff safety and health expert examining nature of an industrial work accident involving the Plaintiff who was a driver for the Defendant. Plaintiff was atop a truck when another driver moved the vehicle causing the Plaintiff to be dragged then thrown from the truck against a wall. A comprehensive review of Defendant’s accident investigation, records and photos was conducted; Defendant trucking and operational facility procedures reviewed; training and other human resources records for the Plaintiff reviewed; fall restraint and other safety device manufacturer’s use and limitations literature analyzed; and an accident root cause analysis developed. Additionally, lines of inquiry for Defendant witness depositions were prepared and discovery item requests submitted to Plaintiff counsel for consideration. This case was resolved before the expert report and opinions were completed. No expert deposition or testimony was given in this case.

Defendant Expert – Hymas v. Rockwell Homes, Inc., United States District Court for the District of Idaho – Served as Defendant safety and health expert for the construction accident case involving a fall of a worker from an elevated platform onto a piece or exposed rebar at a residential construction site resulting in an injury. Case involved multiple construction contractors, sub-tier contractors and staffing agency that the Plaintiff worked through. A review of all available accident records, medical information, and photos was conducted; construction contracts were reviewed for terms and conditions and areas of responsibilities/oversight at the site; and applicable Occupational Safety and Health Administration Construction Regulations were reviewed and workplace requirements for fall protection identified. Lines of inquiry for the Plaintiff witnesses were prepared and an outline of the expert report was drafted. Prior to the expert report and opinions submittal date, this case was settled. No expert deposition and testimony was given in this case.

Third Party Expert – Farm Bureau Insurance Company, Pocatello, Idaho – Conduct an expert review and evaluation of the restoration of a water damage claim, subsequent mold growth, and area remediation conducted at a private residence in Idaho. The insured alleged that mold spores were released during the preliminary water and mold restoration activities and migrated to their occupied areas resulting the mold spore contributed negatively to the Insured’s health. Mr. Miller prepared a expert report with opinions based on a site visit to the insured residence, inspection of the home and interview with insured; review of the adjuster’s case file, field notes, and interview; interview with the water and mold restoration contractor; interview with the project industrial hygienist and review of their report; and review of the air, swab, and bulk microbial sampling data contained within the industrial hygienist report. All opinions were provided in my expert report. No deposition or court testimony was taken.

RELEVANT EXPERIENCE

President, Health and Safety Services, LLC

Idaho Falls, ID

2013 - Present

Responsible for day-to-day operations and marketing services for Health and Safety Services, LLC (HSS) which is focused on providing high-quality expert health and safety consulting services to

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clients. Primary HSS technical consulting services consist (1) Health and Safety Compliance and Consulting - compliance, inspections, violation mitigation and corrective actions, and development of regulatory complaint programs and policies; (2) Worker and Area Exposure Assessments - development of occupational exposure assessments in compliance with AIHA Exposure Assessment methodology including evaluation of exposure groups, engineering controls, work procedures, and personal protective equipment usage. This generally includes conducting exposure monitoring or sampling to document exposures and provide defensible exposure data as required by OSHA; (3) Expert Consulting and Report Writing - provide health and safety legal expert consulting and prepare expert reports for cases involving worker injuries and exposures, accidents and regulatory compliance matters; (4) Expert Testimony - serve as a testifying health and safety expert for cases involving worker injuries, exposures, accidents and regulatory compliance matters typically following expert consulting and report writing services. HSS specializes in expert case consulting in matters involving worker accidents, occupational exposures, retrospective exposure assessments, injuries and OSHA compliance and has represented both plaintiffs and defense in cases.

President, North Wind Solutions, LLC
North Wind Group
Idaho Falls, ID
February 2011 – April 2013

As President, Mr. Miller provided vision and leadership by identifying new clients, business lines, and opportunities and ensuring that all work is carried out in a professional, technically complete manner. He served as the single point of contact with the Small Business Administration (SBA) and is responsible for developing and approving all business plans, joint venture agreements, and SBA 8(a) program compliance. He supervised project managers and met directly with clients to ensure all technical and contractual deliverables were completed on schedule and within budget. Mr. Miller ensured that operations of NW Solutions meet the philosophy, mission, strategy, and business goals and objectives of the North Wind Group. He ensured that corporate policies and programs related to health and safety, quality, procurement, contracts, and human resources are implemented on a daily basis and provided quarterly operational reports. Under Mr. Miller's leadership, North Wind Solutions grew from a startup to successful SBA 8(a) certified firm with a second SBA certified 8(a) Joint Venture with a combined backlog of more than \$12M in less than two years. Additionally, he was responsible for obtaining an Alcohol, Tobacco, Firearms and Explosives (ATF) explosive license and served as the corporate Responsible Person for the ATF license responsible to ensure all employee possessors purchasing, storing and handling explosives were compliance with ATF regulations and license requirements.

Sr. Vice President, Corporate Health, Safety and Security; Facility Security Officer
North Wind Group and all subsidiary companies
Idaho Falls, ID
February 2009 – February 2011

Served as the corporate point of contact for health, safety and security matters for the North Wind Group and 6 subsidiary companies consisting of over 400 employees working from 18 offices throughout the US and with revenues exceeding \$100M annually. Reported to the President of the North Wind Group and developed and implemented all health, safety and security programs and

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procedures, tracked and report performance metrics and took correction actions where needed to improve performance. Under Mr. Miller's leadership, the North Wind Group and subsidiary companies maintained an experience modification rate (EMR) well below their industry averages, obtained and maintained two OSHA Voluntary Protection Program (VPP) STAR sites, was awarded the OSHA VPP Star among Stars award, and was successful at having several years with zero OSHA recordable or lost-time injuries.

As the Facility Security Officer (FSO), Mr. Miller controlled all aspects of the North Wind Group and subsidiary Department of Defense and Department of Energy facility security clearances including developing all security and operational security plans, maintaining government contractor required security databases, facilitating new subsidiary company and personnel clearances, and interfacing with government agency security and counter-intelligence/terrorism counterparts during audits and program oversight to ensure compliance with security regulations.

Vice President, Corporate Health and Safety Director

North Wind, Inc.

Idaho Falls, ID

February 2004 – February 2009

Developed and maintained all corporate health, safety, and radiological programs; reviews and approves project health and safety plans and procedures for all North Wind Group Companies including natural and cultural resources, remediation, treatment, construction, demolition projects and operating facilities. Health, safety and security lead for 18 North Wind offices and provide direct support to projects in all North Wind Group geographic locations. Worked with workers compensation policy holder, professional organization, OSHA VPP Program office and remediation industry H&S professionals to ensure all programs provided for an effective safety culture and corporate H&S goals are met. Supported strategic planning, teaming and proposal development, project management, and served as a technical resource for internal and external customers. Provided expert consultant and witness industrial hygiene and safety services and testimony for attorneys regarding accidents, exposure assessments, microbial/IAQ, safety issues and other health and safety related cases.

He has written procedures, conducted training, and established medical surveillance programs to control exposure to radionuclides, heavy metals (arsenic, asbestos, beryllium, cadmium, chromium, lead), mercury, and solvent contaminants in compliance with OSHA substance standards at uncontrolled hazardous waste sites. Project sites have included waste pits/trenches, contaminated soils and underground storage tanks, mine tailing piles, landfills, drummed hazardous waste, UXO/MEC, radioactive structures and piping, and radioactive and mixed (hazardous/radioactive) waste and debris locations throughout the US for the DOE, US Air Force, US Coast Guard, US Army, NAVFAC, USACE, commercial, and private clients.

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PAST MAJOR PROGRAMS & PROJECTS

Program Consultant, HSS, LLC – North Wind Solutions, LLC for the U.S. Navy, Space and Naval Warfare Systems Command (SPAWAR), SPAWAR Systems Center Pacific, Marine Mammal Program (MMP), San Diego, CA (2013) – Served as the program consultant to transition program manager responsibilities to new program manager. Facilitated client and staff meetings, reviewed program operations metrics and budgets, provided budgeted staffing levels and recommended changes to increase efficiency. Additionally, wrote the North Wind Dive Safety Manual and developed all Dive Plans/Dive Hazard Analysis for all topside and underwater dive operations to meet requirements of OSHA 29 CFR Subpart T, Commercial Diving requirements. Developed fiscal year end program metrics to Navy client demonstrating all contractual performance objectives were met or exceeded with zero change orders or client concerns.

Corporate Sponsor/Program Manager – U.S. Navy, Space and Naval Warfare Systems Command (SPAWAR), SPAWAR Systems Center Pacific, Marine Mammal Program (MMP), San Diego, CA (2012-2013) – Developed the technical and cost proposal and served as chief negotiator to secure this \$6M+ 3-year firm fixed price contract to serve as the construction and maintenance contractor for the Navy's MMP. Program included constructing, maintaining, and cleaning mammal enclosures and associated docks and platforms, storage sheds, and support MMP operational buildings. Routine diving and boat operations were required to maintain MMP locations throughout the San Diego Bay area. Additional responsible for emergency and requested maintenance of two additional MMP locations in the Pacific Northwest and South Atlantic regions. Developed all operational operations metrics, budgets, and conducted oversight to ensure client requirements and MMP animal safety requirements were met. Developed new dive program, dive medical surveillance protocol, upgraded all dive gear, created new maintenance database, and improved dive efficiency through better scheduling and coordination of dive tasks with MMP personnel. Exceeded all contractual performance metrics with zero safety incidents while exceeding project profit target.

Project Health and Safety Manager - U.S. Department of Homeland Security, United States Coast Guard, Base Support Unit, Pier 36, Building 3, Seattle, WA (2012) – Served as project health and safety manager and principal certified industrial hygienist to provide direct support and oversight of lead paint removal and encapsulation of the Pier 36, Building 3, a single-story warehouse structure constructed in 1930 with a footprint of approximately 200,000 ft². The \$15M contract required extensive scaffolding erection (large area scaffolding spanning approximately 12,000 ft² for each area abated with levels 4 through 6 greater than 50 feet high). A negative pressure HEPA-filtered lead abatement containment was constructed over existing occupied office and command facilities to isolate personnel and allow for continuous operations during media blasting, cleaning and encapsulation of lead-based paint located on building metal trusses, asbestos corrugated roofing and walls. Extensive air sampling and continuous ventilation pressure monitoring of containments was conducted to provide objective evidence to USCG Command and occupants that lead control work area containment integrity and controls were functioning adequately during their occupancy. All work was completed with zero OSHA recordable injuries and all lead exposures to abatement workers and outside containment were well below the established occupational exposure limits.

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Project Health and Safety Manager – U.S. Department of Energy (DOE), Idaho National Laboratory (INL), Pit 10 Accelerated Retrieval Project (ARP) VII Nuclear Facility Design/Build Construction Project (2010-2011) – Served as project health and safety manager responsible for preparation of all health and safety documentation to meet DOE requirements for the \$17M design and construction of a retrieval enclosure structure to be used to remediate transuranic mixed waste located in the Subsurface Disposal Area of the Radioactive Waste Management Complex at the INL. Facility was constructed as a Category 2 nuclear facility. Health and safety documentation including 10 CFR 851, *Worker Safety and Health Program*, Integrated Safety Management System, Construction Safety Plan, Hoisting and Rigging Plan, and all work packages and associated Job Safety Analysis in compliance with Occupational Safety and Health Administration (OSHA) 10 Code of Federal Regulation (CFR) 1926, *Construction* standards. Additionally, responsible for developing and overseeing all medical surveillance requirements, served as the North Wind representative for all INL site stabilization agreements and collective bargaining associated with trade unions workers that were direct hired by North Wind for construction.

Project Manager/Lead Investigator – U.S. Army Corps of Engineers, Savannah District, Air Sampling Analysis for Mold Prevention Technology Demonstration Project, Ft. Gordon, GA (2009-2010) - Served as Project Manager/Lead Investigator evaluating two ventilation system treatment technologies (UV light and hydrogen peroxide) installed to destroy airborne biological contaminants in multiple HVAC air handling units serving Army Barracks where Warriors in Transition (service members from Operations Enduring Freedom and Iraqi Freedom injured in combat who are transitioning back to civilian status). Study consisted of conducting a series of five rounds of air sampling (baseline and 4 quartering rounds) for microbial contaminants using culturable media (MEA and GD18) and non-viable spore traps up and down streams of the return air HVAC treatment units in two barracks, two control barracks, and outdoor background locations to determine speciation and count for vegetative and non-vegetative of fungi. Additionally, HVAC parameters such as particle counts, air flow, temperature, relative humidity, CO₂ and percent fresh air are being measured for each HVAC air handling unit and branches are being measured. The final report and results were used for the selection of the preferred HVAC treatment system technology throughout the Army Engineering Command Southeast District.

U.S. Department of Homeland Security, United States Coast Guard (USCG), Integrated Support Command, Kodiak Air Station, AK (2008 – 2012) - Served as health and safety manager and lead industrial hygiene technical consultant for multiple task orders at the Kodiak, Alaska USCG station and USCG facilities in Seattle, WA. Projects completed included asbestos and lead based paint remediation projects of barracks, dining facilities, and other common areas; lead contaminated soils characterization and removal; installation of a vapor recovery extraction system in barracks/common area crawlspaces to mitigate groundwater chlorinated solvent contaminants; conducting IAQ study of occupied barracks and common areas to define military/patron risk; remediation and demolition of housing, surplus USCG facilities, and contaminated areas.

Prepared all hazardous materials abatement plans, oversight of CIH conducting asbestos Phase Contrast Microscopy (PCM for occupational) and Transmission Electron Microscopy (TEM for area clearance) air sampling, approved all asbestos and lead abatement plans, and write technical project reports summarizing hazardous materials abatement and clearance of common areas.

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Provided industrial hygiene technical consulting for the design, installation and commissioning and balancing of multi-building vapor intrusion remediation systems to place crawlspaces under negative pressure (with respect to occupied areas above) to eliminate ground water contaminant trichloroethylene (TCE) and perchloroethylene (PCE) vapors from entering barracks and common areas above. Conducted commissioning testing and balancing of all ventilation system components and all associated baseline and post-commissioning indoor air studies using EPA Method TO-15, Volatile organic compounds (VOCs). Prepared technical memorandums for USCG summarizing air study results and supported USCG with technical discussions with U.S. EPA Region 10 related to military occupant/patron risk and reoccupancy.

Technical Consultant – U.S. Department of Energy, Office of River Protection (ORP), Hanford Site, WA (2009) – Provided a technical compliance and Independent Government Cost Estimate (IGCE) evaluation and report of the Washington River Protection Solutions (WRPS) 10 CFR 850, Chronic Beryllium Disease Prevention Program (CBDPP): Final Rule implementation cost submittal to DOE Office of River Protection (ORP). This WRSP CBDPP compliance review and costs estimate was developed for the Hanford Tank Farm Beryllium Program to align all programmatic elements with the Hanford Sitewide CBDPP. IGCE was developed using engineering assessments, cost estimating relationships, vendor quotes, and technical basis for differing CBDPP element costs approaches. All assumptions and methodology were provided in the final report to DOE ORP.

U.S. Department of Homeland Security, United States Coast Guard, Integrated Support Command, USCG Kodiak Air Station, AK (2008-2012) - Served as health and safety manager and lead industrial hygiene technical consultant for multiple task orders at the USCG station Kodiak Island, Alaska. Projects completed included asbestos and lead based paint remediation projects of barracks, dining facilities, and other common areas. Prepared all hazardous materials abatement plans, oversight of CIH conducting asbestos phase contrast microscopy (PCM) occupational and transmission electron microscopy (TEM) clearance air sampling, approved all asbestos and lead abatement plans, and writing technical reports summarizing hazardous materials abatement and clearance of common areas. Provided industrial hygiene technical consulting for the design, installation and commissioning and balancing of multi-building vapor intrusion remediation systems to place crawlspaces under negative pressure (with respect to occupied areas above) to eliminate TCE and PCE vapors from entering barracks and common areas above. Conducted commissioning testing and balancing of all ventilation system components and all associated baseline and post-commissioning indoor air studies using EPA Method TO-15 for volatile organic compounds (VOCs). Prepared technical memorandums for USCG summarizing air study results and supported USCG with technical discussions with U.S. EPA Region 10 related to military occupant/patron risk.

Program Health and Safety Manager – Bureau of Land Management, Hazardous Materials Emergency Response Contracts (State of Utah and Idaho), statewide locations (2004 – 2012) - Served as the health and safety manager developing all programmatic H&S documents and approving all project-specific Health and Safety Plans, prescribed medical surveillance and monitoring, OSHA 29 CFR 1926 regulatory interpretations, and provided oversight for all emergency and planned remediation actions conducted under these state-wide contracts. Projects completed included emergency response to numerous spills and illegal dump sites. Planned

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responses have included reclamation of mine sites, illegal asbestos dump sites, contaminated structures and heavy metal mine tailings, and the safe demolition and closure of BLM structure and mine adits.

LANL Environmental Program Support – Department of Energy, Los Alamos National Laboratory, NM (2006-2010) - Provided technical project support services for numerous task orders issued under North Wind, Inc's master service contract with Los Alamos National Security, LLC (LANS). Prepared Environmental Program-Wide Environmental Safety and Health Plan and project specific Site Safety and Health Plans to meet the requirements of 10 CFR 851, Worker Safety and Health Program and 29 CFR 1926.65, HAZWOPER, respectively. Projects included, TA-21 ISS tritium component removal, LANL Baseline Industrial Hygiene Exposure Assessment, Industrial Hygiene Support for LANL Beryllium Project, TA-54 Performance Assessment and Low-Level Waste Operations, and LANL Master Drilling Contract.

Program Health and Safety Manager – Bureau of Land Management, Anvil Points Remediation Project, Rifle, CO (2008-2009) - Served as the health and safety manager and providing ongoing technical project support to removal of over 200,000 cubic yards of spent oil shale tailings and placement in a North Wind design/build repository. Prepared and approved Site-safety and health plans, developed area and personal air sampling strategies, directed medical surveillance, and provided engineering controls to minimize airborne and contact exposure to arsenic, lead and PAH contaminants associated with shale tailings as well as buried asbestos transite piping. Provided safety oversight and direction for mine adit closure and construction of 70,000 cubic yards of spent shale yard in an engineered repository.

Beryllium Decontamination and Demolition Project – Former American Beryllium Company, Sarasota, FL (2008) - Served as the project certified industrial hygienist (CIH) for Environmental Dimensions, Inc for the decontamination and demolition of portions of the former American Beryllium Company. This project was being conducted for Lockheed-Martin Corporation (LMC). Primary activities included reviewing/revising the project health and safety plan, developing exposure assessments for personnel conducting decontamination tasks, reviewing all personal and area air sampling data, interacting with the LMC and community advocates to communicate beryllium exposure and airborne controls and to facilitate understanding of the health controls to ensure no releases to the adjacent housing areas.

Program Health and Safety Manager, Sustainment, Restoration, and Modernization Task Order Contract (SATOC), U.S. Air Force Civil Engineering Support Agency, Worldwide (2005-2010) – Served as the Health and Safety Manager for all SATOC task orders. Prepared, reviewed and approved all site safety and health plans; subcontractor safety programs and plans, and H&S-related technical submittals; oversaw all H&S compliance; performed program H&S audits and inspections; supervised and provided technical guidance to all assigned field site safety officers; determined/oversaw medical surveillance requirements; served as subject matter expert for all H&S issues and compliance. Projects on-going or completed have included:

- Charleston AFB, SC – Runway/Taxiway Replacement and Upgrades- \$28M
- Malmstrom AFB, MT – Mechanical System Upgrades/Replacement - \$3M

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- Holloman AFB, NM – Various civil projects – \$6M
- Moody AFB – Lighting and ECIP Installation - \$1.9M.

Former Hanger 6 Site Characterization and Remediation, U.S. Army Corps of Engineers-Alaska District, Fort Wainwright, Alaska (2006-2007) - Mr. Miller served as the Health and Safety Manager and USACE Program Certified Industrial Hygienist performing various airborne volatile, semi-volatile, metals, and chemical warfare agent compounds sampling during soil disturbance, liner installation, and excavation of potentially contaminated soils at the former Hangar 6 site located at Fort Wainwright, Alaska. All work was conducted in Level B (supplied air/chemical resistant clothing) and included personal, perimeter (project fence line), soil gas, and direct reading air monitoring was conducted to gather chemical source and exposure data used to further evaluate potential construction worker reported symptoms who were excavating soil at the former Hangar 6 site in July 2006.

Area and personal air samples were collected and analyzed in accordance with selected National Institute of Occupational Safety and Health (NIOSH), Occupational Safety and Health Administration (OSHA), Environmental Protection Agency (EPA) Toxic Organic (TO) Compendium Method TO-15, and Laboratory Modified NIOSH methods.

Direct reading instruments (including a photoionization detector [PID] with an 11.7 eV lamp, flame ionization detector [FID], and MSA HAZMATCAD Plus [material chemical agent detector/chemical warfare agents] were calibrated and operated in accordance with the manufacturer's operating instructions. All air and soil gas sampling and direct reading monitoring of workers was performed by the Mr. Miller.

Beryllium Hazard Assessment - DOE National Engineering Technology Laboratory, Albany, OR (2006-2007) – Served as the project technical lead for the development of a beryllium hazard assessment for the DOE National Engineering Technology Laboratory Albany Research Facility located in Albany, OR. Scope of services include a comprehensive review of existing DOE NETL Albany CBDPP; review existing occupational exposure assessment process and procedures; review and assessment of the current baseline beryllium inventory; review and assessment of existing and ongoing Beryllium facility characterization including wipe, bulk and air sampling; statistical analysis of characterization and personal exposure data utilizing left-censored statically modeling approaches such as “R”; development of similar exposure groups and hazard ranking of these groups and specific operational areas; preparation of the written hazard assessment to provide a quantification of beryllium as a health and safety hazard as it relates to the NETL-Albany site and its operations; updating the existing NETL Albany CBDPP; and certification of the hazard assessment by a third party accredited/certified board.

Project Health & Safety Manager, Rocky Mountain Arsenal Projects, Denver, Co (2005-2007) – Served as Health and Safety Manager for multiple projects at the Rocky Mountain Arsenal site in Denver, CO under contract with Tetra Tech EC, Inc. Developed and approved all Task-specific Health and Safety Plans (THASPs), determined PPE and medical surveillance, personal and areas monitoring, site s controls, and other requirements for degraded chemical warfare agents and other hazardous materials requiring level D-Level B PPE. Representative projects have included well sampling, well installation and abandonment, at various Lime Basins project sites. Met OSHA

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VPP STAR requirement for all site activities.

LMAES Structures and Equipment Dismantlement and Disposal (Pit 9 Facilities D&D), DOE Idaho National Laboratory, ID (2005-2007) - Served as the Corporate Health and Safety Director and project ES&H oversight for the D&D of all LMAES structures (Retrieval Building, Remediation Treatment Facility, and all tanks, piping, and equipment located in and around the facilities) and equipment located within the Radioactive Waste Management Complex Pit 9 Subsurface Disposal and Administrative Areas. Demolition methods included deconstructing the retrieval building to relieve stress on structure; physical demolition of the concrete RTF using a combination of wrecking ball, tracked excavator with shears and processors; and shearing, sizing, and processing structures in the administrative area. Project involved significant hoisting and rigging of large (100') steel structural members and equipment as well as handling and hauling of demolition debris. Mr. Miller was responsible for writing the integrated Safety Management System (DEAR 970.5223-1, "Integration of Environment, Safety and Health into Work Planning and Execution"), Contractor Assurance System (DOE Order 226.1), Project Health and Safety Plan, and preparing North Wind prime contractor 10 CFR 851, Worker Safety and Health Program for DOE-ID approval. All contractually required plans were submitted and approved within contractually defined schedule.

Hurricane Damaged Facility Demolition and Reconstruction, U.S. Air Force AFCEE Worldwide Environmental Restoration and Construction (WERC), Various Gulf Coast Bases (2005-2007) - Served as the project health and safety manager for several projects totaling \$15M involving structure demolition and debris removal, reconstruction, and renovations at Hurlburt Field Air Base in Ft. Walton Beach, FL and Keesler Air Force Base (AFB), Biloxi, MS a result of Hurricanes Ivan, Dennis and Katrina. These projects were performed under NWI's US Air Force (USAF) WERC contract and NWI served as the general contractor. Mr. Miller has prepared the health and safety plans and specifications other for all projects that have included a wastewater treatment plant, marina, construction of a bridge, and renovation of the USAF Special Forces headquarters building. Additionally, Mr. Miller was onsite at Keesler AFB in Biloxi, MS within 10 days following Hurricane Katrina performing water damage assessments of multiple base facilities, assisted in the preparation of demolition workplans, prepared project health & Safety plans, and specifications for remediation contractors.

FWA-102 (Taku Garden) Site Characterization and Remediation, U.S. Army Corps of Engineers-Alaska District, Fort Wainwright, AK (2005-2006) - Served as the project health and safety manager and NWI Alaska Division Manager overseeing several Stryker Brigade projects at Ft. Wainwright located in Fairbanks, AK from April 2005 through December 2006. Projects included site characterization to delineate the extent and nature of PCB and other hazardous materials and unexploded ordinance (UXO) at a 52-acre construction site where legacy military hazardous materials were discovered through initial soils screening and excavation tasks. Mr. Miller has prepared all accident prevention plans, site safety and health plans, worker and area exposure monitoring plans, developed engineering controls to ensure no off-site releases to adjacent residential areas, and approved all munitions of concern (MEC)/UXO support plans. Project activities included surface geophysical studies (GPR, EM-31, EM-51); surface and subsurface soil sampling (direct push); installation of temporary and permanent water monitoring wells; field

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screening with polychlorinated biphenyl (PCB) assay kits; excavation of test pits and trenches; stockpile sorting for MEC/UXO and associated UXO and scrap disposal; handling, repacking and sampling of excavated waste drums; PCB contaminated soil handling and transportation; and comprehensive worker, resident, and area exposure monitoring. This scope of work also included two additional sites where UXO and known and unknown soil contaminants have been found. Project tasks were conducted in Level D, C and B personal protective equipment.

Hurricane Katrina Damage Assessments, Demolition and Reconstruction, U.S. Air Force Center for Environmental Excellence (AFCEE), Worldwide Environmental & Construction (WERC) Contract, Kessler AFB, MS (2005-2006) – Served as the health and safety manager for this \$12M+ project and task lead for all damage assessments. North Wind is providing turnkey damage assessments, demolition and reconstruction services of facilities and grounds in response to hurricane Katrina damage at Keesler Air Force Base (AFB), located in Biloxi, Mississippi under North Wind's the US Air Force Worldwide Environmental Restoration and Construction (WERC) contract. North Wind mobilized to the base within 3 days in response to a Government notice to proceed and conducted damaged assessments of several facilities and base grounds. Mr. Miller served as the lead for all water damage and mold assessments of occupied and abandoned structures performing visual inspections of all buildings, thermal imaging of building surfaces, taking moisture meter measurements of building materials, and delineating all materials to be remediation through each structure. He also prepared all asbestos and mold remediation specifications for all water damaged and mold affected building materials including containment requirements, remediation protocols, structural drying, and post-remediation assessment criteria. In addition, Mr. Miller prepared all project health and safety plans (HASPs) and specifications for each scope of work that addressed all project activity hazards, hazard mitigation, and contingencies associated with facility demolition and reconstructions as well as grounds remediation. Demolition and reconstruction scope included the Keesler AFB marina and associated facilities, security building, contracting building, dormitories, NCO billeting building, debris and stump removal and repair/replacement of various docks. He oversees all safety and health officers assigned to the project. *All project work was completed without a single recordable or lost time injury.*

U.S. Army Corps of Engineers, Nationwide Remediation Services (2004-2008) – Prepared all health and safety plans and served as Program CIH for North Wind U.S. Army Corps of Engineering projects in the Sacramento, Savannah, Omaha, Mobile, and Alaska Districts. Projects include remediation of contaminated release sites; installation, operations and maintenance of vapor extraction systems; construction projects; and investigation of unexploded ordinance/ordnance and explosive (UXO/OE) sites including remote USACE formerly used defense sites (FUDS) located on Alaskan Aleutian Islands and St. Lawrence Island.

In Situ TRU Waste Delineation and Waste Removal at Hanford 618-10/618-11 Burial Grounds, DOE Hanford, WA (2004-2007) - Served as Project Health and Safety Manager – Major Project Lead for DOE-HQ Environmental Management, Technology Development and Deployment Program In Situ TRU Waste Delineation and Waste Removal at DOE Hanford, Washington 618-10/618-11 Burial Grounds. The project goal is to identify, develop, and demonstrate technologies to support accelerated Hanford site remediation. DOE fabricated fuel for the Hanford Site nuclear production reactors in the 300 Area that produced large volumes of many types of radioactive wastes,

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including transuranic (TRU) wastes that were disposed on in trenches and vertical pipe units (VPUs). North Wind has developed VPU retrieval technology that is being demonstrated as a proof-of-principal in a cold testing facility prior to applying this technology to the 618-10/18-11 Hanford Area. Work to date has included preparation of all work plans, health and safety plans, test plans, and procedures necessary to conduct full scale cold testing of a large diameter casing driven by a pile driver to over core and retrieve the simulated VPU. In addition, development and field testing of surface geophysical technology and downhole nuclear logging methods are being tested to verify the technology for hot operations. The final project Phase II task will be to retrieve radioactive materials containing VPU from the Hanford 618-10/618-11 area.

Los Alamos National Laboratory, DOE TA-73 Airport Landfill Closure Project, Los Alamos, NM (2004-2006) – Prepared comprehensive safety and health plan for Los Alamos National Laboratory TA-73 airport landfill RD/RA closure project. Project included conducting large scale excavation of closed landfill, retrieving debris and waste from a steep slope located approximately 100-ft above the Pueblo Canyon valley with a drag line and excavation equipment. Final fill and grading cover requirements will meet voluntary consent order RCRA Subtitle C landfill requirements. The entire landfill area was regraded. Additionally, all heavy equipment operations were conducted adjacent to the active Los Alamos County Airport runway. Health and safety procedures and plans have been prepared to be compliant with DOE O 441, 29 CFR 1910.120 HAZWOPER, 29 CFR 1926, Construction, and relevant FAA requirements.

Kadlec Hospital DOE Building 748 Decontamination and Decommissioning Project, DOE Richland, WA (2004-2005) - Served as the Project Health and Safety Manager – Major Project Lead for D&D of the Kadlec Medical Center DOE Building 748 (Emergency Decontamination Facility) located adjacent to the Kadlec Medical Center in Richland, Washington. Contract scope included preparation of all work plans, demolition plan, health and safety plan, and final characterization sampling and analysis plan (prepared in accordance Multi-Agency Radiation Survey and Site Investigation Manual [MARSSIM]); removal and decontamination of radiologically contaminated equipment and surfaces to meet DOE Order 5400.5 (Radiation Protection of the Public and the Environment) release requirements; characterization, removal, and packaging for transportation of hazardous materials and waste (lead, mercury, PCBs, creosote, tritium); and abatement of friable and nonfriable asbestos containing building materials. North Wind used a track excavator equipped with various buckets, specialized shears, and processors to demolish and size above grade concrete structure and piping, excavate of buried sumps, tanks, ductwork and remove underlying contaminated soils. Building 748 facility was located within 75 feet from the hospital surgical suite and is adjacent to the emergency entrance. All demolition tasks were completed with minimal impact to the ongoing Kadlec Medical Center operations.

Operable Unit 1-10 (V-Tanks) and CERCLA Soil Area Decontamination and Decommissioning Project, Idaho National Engineering and Environmental Laboratory, ID (2004) - Prepared all health and safety documentation including site-specific health and safety plans (HASP), job safety analysis (JSA), technical procedures, and hazard screening checklists for this D&D project that consisted of removal, transfer, and treatment of PCB contaminated radioactive liquid and sludges from underground tanks, piping systems, and vaults located at Test Area North at the Idaho National Engineering and Environmental Laboratory (INEEL).

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U.S. Army Yuma Proving Ground, Yuma, AZ (2004) – Provided all health and safety oversight for the U.S. Army Yuma Proving Ground investigation and remediation of 600-acre range area. The area was used for range practice, demolition activities, open detonation, and open burning of explosive ordinance. Unexploded ordinance (UXO) consisted of live rounds, submunitions, anti-personnel mines, and ordinance and explosives elements were nitrocellulose, TNT, RDX, and other nitrogen-based explosives.

SWSD TRU Waste Container Retrieval, DOE Hanford, WA (2004) – Provided procedure development, technical approach, and safety support services to Fluor Hanford, Inc. management in support of transuranic (TRU) container retrieval operations at the Hanford Solid Waste Storage and Disposal (SWSD) area. Services include review and revision of operating procedures for TRU container retrieval operations, container handling, and special handling for deformed, damaged, and breached containers. Included safety approach and contingencies for container handling and retrieval.

White Sand Missile Range (WSMR) Operational and Safety Services, Las Cruces, NM (2004) – Provided safety and health technical services to BAE Systems, Inc at the DOD White Sand Missile Range (WSMR). Services include reviewing and revising the site-wide health and safety documentation, preparing multimedia inspection criteria, conducting compliance safety and health audits of operational, support, and tenant facilities. Continued periodic support of the High Energy Laser Test Facility (HELSTF) with respect to operational safety issues is also being provided.

President/Principal Technical Consultant

Vortex Enterprises, Inc

Idaho Falls, Idaho

December 1998 – February 2004

Wrote and reviewed safety analysis reports, hazards assessments, health and safety plans, and other related safety programs for government and commercial clients. Managed and supervised industrial hygiene (IH), safety, and health physics personnel and provides project management, planning, regulatory support, and oversight to numerous Department of Energy (DOE) environmental restoration, waste management, construction, and decontamination & decommissioning (D&D) projects. Provided expertise in health, safety, and radiological engineering and hazard controls The DOE project listed above including onsite investigations, evaluations, and risk assessment studies. Conducted hazard/OSHA 1910 (General Industry) and 1926 (Construction) regulatory compliance assessments and develop strategies/products to resolve deficiencies and enhance programs. Served as the project manager, field team leader, and health and safety officer for drilling, remedial investigations, removal actions, construction, site investigations and D&D projects. Mr. Miller provided project management and direct nuclear operations, industrial hygiene, safety, environmental compliance, and radiological field oversight for remedial investigation/feasibility study (RI/FS), remedial design/remedial action (RD/RA), and radiological D&D projects. In addition to DOE projects, he provided health and safety services for construction, private industry remediation projects, and water damage and microbial investigations.

Water Damage and Microbial Assessments and Investigations (1998-2004) - Specialty project investigative work conducting water damage and microbial assessments for residential,

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commercial, insurance company, hotel and medical facility clients. Conducted investigative assessments utilizing physical inspection methods such as moisture meters, infrared thermal imaging camera, indoor air quality (IAQ) parameter meters, laboratory air samples for viable and non-viable fungi, bioaerosol sampling, and particle counters. Prepared assessment reports that included detailed remediation specifications and protocols in accordance with industry standards and conducted post-remediation assessments to ensure all remediation protocol requirements were met. Served as water damage and microbial consulting expert, wrote expert reports and was a speaker at the 2004 National Mold Symposium in Las Vegas, NV.

Bechtel BWXT Idaho, LLC (BBWI) Management and Technical Services (1998 – 2004) – Provided technical and management support services to Bechtel BWXT Idaho, LLC (BBWI) at the Department of Energy Idaho National Engineering and Environmental Laboratory (INEEL). Mr. Miller’s support included serving as the project field team leader (FTL) and health and safety officer (HSO); writing Health and Safety Plans (HASPs), detailed technical procedures, system operability (SO) test procedures, and operational test plans. Ensuring project compliance with DOE Order 5480.19 Conduct of Operations, OSHA Voluntary Protection Program (VPP), Integrated Safety Management Systems (ISMS), nuclear facility operational training requirements, and related safety analysis documents. Served as the FTL for numerous site investigation, remediation, technology development/deployment, and testing at transuranic (TRU) mixed waste subsurface disposal areas. Participated as member of technology design team and lead field activities for all BBWI/DOE readiness assessments for start-up and implementation of new field Category 2 nuclear operations as described below.

OU 7-10 Glovebox Excavator Method Project (2003-2004) – \$90 million dollar project involved remote excavation and retrieval of TRU mixed Rocky Flats Plant waste drums and debris in OU 7-10 (Pit 9) located in the Subsurface Disposal Area (SDA) at the Radioactive Waste Management Complex (RWMC). Provided key health, safety and nuclear operational expertise including writing the comprehensive operational health and safety plan; evaluation of engineering controls; development and implementation of a test plans for cold and hot (radiological) operations, detailed operating and SO test procedures for a full-scale excavation mockup facility and OU 7-10 “hot” operations at the Pit 9 category 2 nuclear facility; wrote numerous facility system startup procedures (ventilation system, dust suppression system, air emissions system, and CCTV system); preparing all job hazard analysis for cold and hot operations and incorporated hazard mitigation steps into operating procedures; drafted all decontamination and dismantlement procedures (retrieval confinement structure (RCS) Fogging, RCS and packaging glovebox system (PGS) Housekeeping, Grouting the Waste Pit, RCS and PGS Characterization, Immobilizing Residual Contamination, and Decontamination of the RCS and PGS); and developed emergency plan contingencies for this state-of-the-art remote TRU mixed waste retrieval facility. The Glovebox Excavator Method Project was successfully completed eight months ahead of the enforceable regulatory milestone date.

Operable Unit 7-13/14 Integrated Probing Project (IPP) (2002-2004) - Project involved sonic drilling, sampling, and retrieval of TRU mixed waste samples buried in pits and trenches within the Subsurface Disposal Area (SDA) at Radioactive Waste Management Complex (RWMC). Mr. Miller prepared comprehensive Health and Safety Plans (HASPs) for cold tests and all OU 7-13/14 IPP

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“hot” (buried radioactive material areas) operational activities. Served on design team developing specialized exposure monitoring, engineering controls (HEPA drill string enclosure, and glove bags), and work practices designed to mitigate TRU mixed waste hazards. Presented health, safety, and exposure mitigation strategies to state of Idaho, DOE and EPA Region 10 regulators. Prepared detailed technical operating procedures and served as the Field Team Leader (FTL) for first-of-a-kind sonic drill rig installation of probes (lysimeters, tensiometers, vapor ports, visual, and moisture) within the TRU waste pits to obtain data related to radiological and organic contaminants and source term migration and transport. Served as the FTL for nuclear logging of probes (radioactive Cf source and neutron generator), core drilling and retrieval, glovebag sampling of installed instrumented probes (including developing the radionuclide source term for shipping of the leachate samples), extensive surface geophysical studies, and diffraction tomography. Additionally served on engineering design team developing the second-generation instrumented probes. All document submittals for regulatory (DOE-ID/HQ, EPA-Region 10, and IDEQ) and project reviews were ahead of the project schedule and within or below the contractually defined budget.

Mr. Miller provided continuous technical and management services to Bechtel BWXT, Lockheed-Martin Idaho Technology Company and Parsons Infrastructure and Technology Group for the Operable Unit 7-10 (Pit 9) and Operable Unit 7-13/14 IPP projects 1998 - 2004.

Advance Mixed Waste Treatment Project (AMWTP), British Nuclear Fuels Ltd, DOE Idaho National Engineering and Environmental Laboratory, ID (2000-2001) – Provided industrial hygiene expertise to British Nuclear Fuels Ltd. (BNFL), Inc. for the \$400 million dollar Advance Mixed Waste Treatment Project (AMWTP) located at the DOE Idaho National Laboratory (INL). Served as the consulting CIH for industrial safety and hygiene programs during the retrieval, treatment, and disposal of more than 65,000 cubic meters of transuranic (TRU) mixed waste at this CERCLA site. Project activities include large scale excavation of clean overburden soils, retrieval of 55-gallon drum, boxes, and other TRU stacked waste containers, chemical and radiological screening and assaying of each container, transportation to processing facility, and size reduction (compaction) of containers for final shipment to repository. Focus areas of technical support included development of the personnel and area exposure assessments; sampling strategy for beryllium, heavy metals, silica, physical hazards; and oversight of the chronic beryllium disease prevention program (10 CFR 850). Additional support and oversight was provided in the areas of respiratory protection, atmospheric monitoring and testing, statistical analysis of exposure monitoring data, and supervision of staff industrial hygienists. Provided on-site management support services during DOE HQ Operational Readiness Review (ORR) and follow-up DOE-HQ ORR verification to resolve technical issues related to exposure assessments.

Industrial Hygiene Laboratory Audit (2000) - Conducted comprehensive laboratory audit of DataChem Laboratories Industrial Hygiene laboratory facilities and procedures (Salt Lake City, UT Lab) for BNFL, Inc. Prepared audit criteria based on AIHA LQAP; DataChem SOPs, IHQAP, QAPP, 29 CFR 1910.1450, 10 CFR 20, and previous audit findings. Generated detailed summary report with findings, conditions adverse to quality, and recommendations.

In-Situ Grouting (ISG) Project Comprehensive Sampling (2002) – Conducted all geotechnical and chemical analysis sampling for the In-Situ Grouting (ISG) project demonstration at the Idaho

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Engineering and Environmental Laboratory (INEEL) Radioactive Waste Management Complex (RWMC). Sampling included all geotechnical cylinder (compressive strength) and rare earth tracer samples associated with the high-pressure jet grouting of like-TRU waste forms at the RWMC study area. Samples were collected from the drill string, thrust blocks, drill string decontamination liquid, waste streams and high-volume air samplers placed around the high-pressure jet grouting rig to determine the extent and nature of potential TRU contamination via the rare earth tracers. Following a high-pressure grout pump failure, participated in the DOE Type B investigation to determine the root cause and contributing causes of pump failure focusing on the safety aspects.

INEEL CERCLA Disposal Facility Construction Health and Safety (1999) - Prepared Health and Safety Plan for the INEEL CERCLA Disposal Facility (ICDF) Operations. The HASP presented the systematic approach to identify and control ICDF operational hazards related to facility processes in accordance with 29 CFR 1910.120 (HAZWOPER) Treatment, Storage, and Disposal facility requirements.

(Private Client) Highly Flammable Material Sort, Segregate, Repackage, and Disposal Project (1999) - Conducted sorting, segregating, repackaging, and destructive preparation, and transportation activities for over 15,000 55-gallon drums of highly flammable nitrocellulose product at private client facility. Prepared a Site-Specific Safety and Health Plan, conducted detailed project-specific hazard-based training for workers, established engineering controls, personal protective equipment requirements, and monitoring requirements to ensure worker protection during handling, storage transport, and sizing operations.

DOE Pantex Plant Burning Ground Characterization and Remediation Project (2003) - Served as the decontamination and decommissioning (D&D) radiological task manager and health and safety officer for the remediation of high explosive and radiologically contaminated soil area at the DOE Pantex Plant, Burning Grounds Site, Amarillo, TX. Provided all radiological services including conducting in-progress, post excavation, and confirmation radiological surveys. Conducted all confirmation sampling in accordance with Multi-Agency Radiation Survey and Site Investigation Manual (MARSIMS) requirements. Approximately 300 yards of contaminated soil were excavated and loaded in roll-off bins for disposal within an expedited schedule resulting in early site closure.

In-Situ Grouting and In-Situ Vitrification Demonstration Projects (2002) – Prepared health and safety plans for the Idaho National Engineering and Environmental Laboratory (INEEL) In Situ Grouting (ISG) and In-Situ Vitrification (ISV) project demonstrations at the Radioactive Waste Management Complex (RWMC).

DOE Argonne West Cask Tunnel D&D Project (1999) - Developed industrial hygiene program and performed comprehensive air sampling and sound level evaluation in support of the Cask Tunnel Decontamination & Decommissioning (D&D) project located at the Idaho National Engineering and Environmental Laboratory (INEEL), Argonne West reactor facility. Air sampling was conducted for beryllium and respirable silica dusts and noise dosimetry/octave band analysis was performed during concrete and rock demolition tasks being conducted with a remotely operated hydraulic ram (Rubble Maker) to evaluate D&D worker exposures.

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(Commercial Client) Glovebox Fabrication Lead Brick Exposure Assessment (2002) - Performed air sampling and engineering control evaluation of glovebox lead brick cutting and fabrication facility. Compliance to OSHA Lead Standard (29 CFR 1910.1025) and respiratory protection standard (29 CFR 1910.134) was evaluated and ventilation system efficiency examined. Submitted comprehensive report with recommendation for improving engineering controls, work practices, and ventilation efficiency to reduce worker lead exposures in accordance with OSHA Lead Standard.

Yuma Proving Ground Open Burn/Open Detonation Project (1999) - Wrote comprehensive health and safety plan (HASP) for the OB/OD Burn Pad Soil Excavation project at the Department of the Army, Yuma Proving Ground (YPG), Yuma, AZ. Project involved excavation and characterization of soils areas contaminated with residue from explosives (TNT/high explosives) and propellant burning operations. This HASP included a comprehensive lead medical surveillance program and other specialized training requirements associated with YPG explosive site operations.

DOE INEEL Construction Subcontractor Services (1998-2003) - Provided full range of industrial hygiene and safety consulting services to INEEL construction subcontractors conducting facility upgrades, new facility construction, and D&D activities. Expertise in 29 CFR 1910 (General Industry) and 29 CFR 1926 (Construction) regulatory requirements provided. Additional services included, conducting industrial hygiene exposure assessments, serving as competent person for excavation, consulting on OSHA substance-specific standards, and conducting full-period exposure monitoring for airborne contaminants such as metals, silica, asphalt fumes/emission constituents, and other organic compounds in compliance with National Institute for Occupational Health and Safety (NIOSH) analytical methods.

Expert Consultant and Witness Services (200-2004) - Provided expert consultant and witness industrial hygiene services and testimony for attorneys regarding exposure assessment and other health and safety related cases.

Corporate Health and Safety Director
S.M. Stoller Corporation
Boulder, CO - Idaho Falls, ID Office
February 1995 – December 1998

Wrote all corporate health, safety, and radiological programs; wrote and implemented health and safety plans for remediation and decontamination and decommissioning (D&D) projects; prepared technical proposals/costs/teaming agreements; and presented technical approach for Stoller proposal team during formal government contracting proposal oral presentations. Served as Corporate H&S technical manager for projects and offices throughout the U.S. and represented Stoller at national remediation and D&D conferences. While serving as the Corporate Health and Safety Director, Stoller had zero recordable injuries/illnesses and no lost time injuries even while conducting complex large-scale excavation, remediation, and radiological D&D projects.

DOE Pantex Plant Remediation and Health and Safety Services (1997-1998) - Served as the environmental, Safety and health (ES&H) manager for two large scale environmental remediation

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projects at the DOE Pantex Plant. Health and Safety Plans (HASPs) were prepared for both the Accelerated Clean-up Activities (ACA) of chemically contaminated sites and Phase III of the decontamination and decommissioning (D&D) of Firing Site 5 (depleted uranium contaminated site and structures) projects. Mr. Miller prepared submittal to meet all technical requirements for large scale excavations, radiological D&D, high explosives handling, and other hazards analysis for approval by Pantex Environmental Restoration (ER) technical representatives. Served as the task manager for much of the Firing Site 5 characterization and D&D including, conducting U.S. Nuclear Regulatory Commission (NUREG) radiological surveys, excavation of contaminated soils, and demolition of existing structures to meet unrestricted release criteria of DOE Order 5400.5 and Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) site closure requirements.

DOE INEEL Investigative-Derived Mixed Waste Sampling, Sorting, and Repackaging Project (1996-1997) - Served as subcontractor project manager (PM) and FTL for waste management facilities investigative-derived waste (IDW) sampling and repackaging at the Idaho National Engineering and Environmental Laboratory (INEEL). Project involved characterization, sorting, lab packaging of low-level and mixed radioactive waste. Work was performed in airborne radioactivity, radiation and contamination areas in Level C and B personal protective and anticontamination equipment. More than 200 waste streams and 3,000 samples were sorted, treated, repackaged, and lab packed for shipment to on/off-site TSD facilities for further treatment and/or disposal. No contamination migration or events occurred due to excellent radiological control work practices and rigorous implementation of conduct of operations.

DOE INEEL Waste Management Services (1996) - Served as subcontractor PM and FTL for several waste operations facility mixed waste projects. Projects included characterization of the ash following a critical burn campaign at the Idaho National Engineering and Environmental Laboratory (INEEL) Waste Experimental Reduction Facility (WERF) and “decompaction” of a WERF low-level waste bin to locate and remove a mixed waste container and conduct characterization of the surrounding waste. Tasks were identified as “critical” by the contractor and DOE facility managers based on meeting regulatory milestones and involved direct regulator participation. These tasks were conducted in Level B (supplied air) anticontamination personal protective equipment inside of high radiological contamination areas and airborne radioactivity areas. All tasks were successfully accomplished in a timely manner with no contamination migration. This allowed WERF to restart nuclear operations with minimal down-time and meet EPA regulatory milestones.

DOE Rocky Flats Plant T-1 Trench Remediation Project (1995) - Provided technical support to Stoller team performing Level B protective equipment remediation and repackaging activities at T-1 Trench at the DOE Rocky Flats Plant, Golden, Colorado.

DOE Pantex Plant Firing Site 5 Radiological Characterization and D&D Project (1997-1998) - Served as the Health and Safety Manager and assistant Project Manager for the DOE Pantex, Firing Site 5, Depleted Uranium (DU) cleanup project to meet DOE Order 5400.5 (Radiation Protection of the Public and the Environment) and Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) site closure requirements. Wrote several health and safety plans for different phases of this project, developed job hazard analysis, and provided health, safety, and radiological oversight for all project tasks. This project required obtaining more than 250,000 radiological

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surface readings with board mounted radiation detectors and collecting of more than 1,000 surface and subsurface soil samples for analysis. Once the site was fully characterized, over 13,000 cubic feet of DU radiologically contaminated soils and fragments were excavated with trackhoes, the two remaining FS-5 structures (shot pad and concrete bunker) were surveyed, contaminated concrete scabbled (18 ton shot pad removed), and the remaining clean bunker structure demolished in place.

DOE Pantex Plan High Explosive/Radiation Remediation Project (1997) - Served as the Health Safety Manager for the Pantex High Explosive/Radiation (HE/RAD) sites remediation project. Wrote all health and safety required documents including, health and safety plan, task hazard analysis, high explosive fragment handling procedures, decontamination plans, and site-specific training requirements. Project involved remediation of soils contaminated with high explosives (HDX, RDX, TNB and TNT) and heavy metals.

DOE Pantex Plant Ditches ICM Remediation Project (1997) - Served as the Health and Safety Manager for the Pantex Ditches Interim Corrective Measures (ICM) remediation project. Wrote the health and safety plan, job hazard analysis, and related documentation for the work plan. More than 5,500 surface and subsurface soil samples were collected and over 22,000 separate analysis conducted by the on-site mobile analytical laboratory. Following contamination delineation, more than 400,000 cubic feet of contaminated soil was excavated at depths to 30+ feet and hauled from the sites for disposal at a hazardous waste landfill.

DOE INEEL Legacy Waste Management Project (1996-1997) - Served as a principal participant in the dispositioning of more than 1,845 legacy samples (in approximately four months) and 147,747 pounds of bulk legacy waste to the appropriate Idaho National Engineering and Environmental Laboratory (INEEL) or off-site EPA-permitted treatment, storage and disposal facility as part of the technical team providing support to Lockheed-Martin's Environmental Restoration Department. Project included providing turn-key services to characterize, sort, and package waste and samples; waste management; writing hazardous waste determinations; entering all shipping data into the INEEL IWITS shipping system; coordinating the shipment of legacy samples and waste; dispositioned samples back to the area of contamination; and creating close-out files to document each sample of waste "Lot" disposition action to meet EPA regulatory requirements. Additionally, performed solidification of low-level waste streams using cement to stabilization prior to shipment to the INEEL Radioactive Waste Management Complex (RWMC) facility in accordance with INEEL radiological waste acceptance criteria requirements.

DOE EINEEL CFA OU 4-17 and OU 4-42 Site Characterization and Remediation Project (1996) - Served as the subcontractor project manager and field team leader (FTL) providing technical support services to Parsons Infrastructure and Technologies Group during the removal actions at the CFA Operable Unit (OU) 4-17/47 and OU 4-42 petroleum contaminated sites. Services included: conducting field screening of contaminated soils using PetroFlag™ immunoassay screening kits to provide "real time" evaluation of cleanup activities, writing Sampling and Analysis Plan document and revisions to meet changing field requirements, and preserving, packaging, shipping all samples to meet 48-hour analysis requirements. Additionally, collected over 100 laboratory confirmation samples ensure excavation of contaminated soil met the risk-based corrective action (RBCA) goals.

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DOE INEEL WAG 4 Comprehensive Remedial Investigation/Feasibility Study Project - INEEL Served as the subcontractor Project Manager (PM) and field team leader (FTL) for Waste Area Group (WAG) 4 comprehensive Remedial Investigation/Feasibility Study (RI/FS) activity. This project included sampling of over 600 surface and subsurface soil locations using hand augering, drilling, and trenching methods to meet RI/FS data requirements. Analysis for hazardous and radiological analytes was conducted. Responsible for all aspects of drilling subcontracting, sample collection, packaging and shipment of analytical samples. Although the scope of work was increased by approximately 20% midway through the project, the project was still completed two weeks ahead of schedule and under the original budget.

DOE INEEL CFA-04 Mercury Retort Sampling Project (1996) - Provided technical support to Parsons Infrastructure during the pumping and transport of 18,000 gallons of mercury contaminated water and sludge at the Central Facilities CFA-04 Mercury Retort site and direct field sampling support for characterization of Waste Area Group 4 Time Critical Removal Action at the Operable Units CFA-13, CFA-15, CFA-42, and CFA-47 sites at the Idaho National Engineering and Environmental Laboratory.

DOE INEEL In-situ Grouting Soil Isolation Project (1995) - Served as the subcontractor project manager providing sampling and analysis support, laboratory statement of work development, waste management, health and safety support, and training services for the Soil Isolation Project (Cold Test Pit and Acid Pit) at the Idaho National Engineering and Environmental Laboratory (INEEL). A patented in-situ stabilization technology was used to inject high-pressure grout in buried waste to create a permanent stabilization form for radioactive and hazardous (mixed) waste located in the RWMC Acid Pit. Mr. Miller collected all contamination control samples including - high volume air samples, swipe samples of the drill string and thrust block surfaces, grout returns, project waste streams, decontamination water, and HEPA filter system. All samples were collected, preserved, packaged and shipped within the analytical holding times and shipped to one on-site and five off-site laboratories.

DOE INEEL RWMC Acid Pit Sonic Drilling Project (1995) - Served as subcontract project manager for sonic drilling and coring of a Tech™ grout stabilized subsurface monolith at the Idaho National Engineering and Environmental Laboratory (INEEL) Acid Pit (Operable Unit 7-13/14). The “Soilcrete” monolith was created using a high-pressure jet grout injection method to stabilize subsurface metal, organic and radiological contaminants. Responsible for conducting all core logging, drill steel decontamination, characterization and subsampling of cores, packaging and shipping analytical samples, and waste management tasks.

Technical Leader, Industrial Hygiene

Lockheed-Martin Idaho Technologies Company (LMITCO)

Department of Energy, Idaho National Engineering and Environmental Laboratory

Idaho Falls, Idaho

October 1994 -February 1995

Directed staff of six industrial hygienists and three health and safety technicians supporting environmental restoration, waste management, and decontamination and decommissioning (D&D) activities at the Idaho National Engineering and Environmental Laboratory (INEEL). Managed department industrial hygiene programs and budgets, served as cognizant industrial hygiene

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professional on all document review committees, LMITCO subject matter expert for 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response (HAZWOPER) regulation ensuring federal and DOE regulatory compliance. Represented the INEEL at national hazardous waste conferences, DOE-HQ working groups, technical issue teams, and HAZWOPER committees. Served on ad hoc environmental safety and health committees, that developed “fast track” health and safety procedures as requested by executive management.

Technical Leader, Industrial Hygiene

EG&G Idaho, Inc.

Department of Energy, Idaho National Engineering Laboratory Idaho Falls, Idaho

February 1994 -October 1994

Same position description as with Lockheed-Martin Idaho Technologies Company with the following additions: Drafted first model (template) Idaho National Engineering Laboratory (INEL) environmental restoration (ER) health and safety plan (HASP) to meet 29 CFR 1910.120, HAZWOPER regulatory requirements that was used by the ER Group and subcontractors for all INEL Remedial Investigation/Feasibility Study (RI/FS), Remedial Design/Remedial Action (RD/RA), and decontamination and decommissioning (D&D) projects. Developed and delivered ER and D&D hazard-specific HAZWOPER training course to workers, field team leaders, and project managers. Participated on DOE-Wide HQ Chemical Vulnerability Assessment evaluating chemical vulnerabilities throughout the DOE complex. Wrote sections of final report and recommendation for mitigating potential chemical vulnerabilities throughout the DOE complex.

Senior Engineer

EG&G Idaho, Inc.

Environmental Restoration & Waste Management Department (ER&WM)

Department of Energy, Idaho National Engineering Laboratory

March 1993 - February 1994

Idaho Falls, Idaho

Recognized, evaluated, and controlled all physical, chemical, and biological hazards resulting from environmental restoration (ER) and decontamination and decommissioning (D&D) projects at Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites on the Idaho National Engineering Laboratory. Conducted risk assessments of mixed hazardous waste (chemical and radiological) sites, designed engineering controls and process modifications to minimize worker exposures, determined all personal protective equipment requirements for project tasks, developed strategies for state-of-the-art personnel and area monitoring in mixed waste environments, authored and served as technical reviewer and editor for all project health and safety documentation, and approved work control documents (safe work permits, hot work permits, construction permits, etc.). Mr. Miller directly supported D&D projects at the following facilities: Test Area North (TAN) Operable Units 1-04, 1-05, 1-10, Radioactive Waste Management Complex (RWMC), Test Reactor Area (TRA), Chemical Processing Plant (CCP), Auxiliary Reactor Area (ARA) I/II/III, Special Power Excursion Reactor Test (SPERT) IV, Power Burst Facility (PBF), and Waste Area Group (WAG) 10 site-wide projects.

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**Director, Technical Services, Bioenvironmental Engineering
United States Air Force (USAF), 509th Operations Group, 509th Medical Group
Whiteman Air Force Base, Missouri
January 1992 -March 1993**

B-2 Stealth Bomber Industrial Hygiene Director - As the 509 B-2 Stealth Bomber Program industrial hygiene director, reviewed Title I/II facility designs and conducted comprehensive occupational health evaluations of 20 new aircraft maintenance and support facilities housing 1,400 workers. Performed risk assessments on all hazardous processes and materials including unique B-2 bomber “skin” composite material exposures and attended USAF toxicological workshops on stealth technology exposures and thermo-degeneration (fire) constituents. Developed all new aircraft composite exposure monitoring programs and provided medical surveillance recommendations to Aerospace Medicine Commander and ensured implementation of new engineering controls.

Base Radiation Safety Officer - As the base radiation safety officer, controlled all aspects of comprehensive base radiological protection program in accordance with U.S. Air Force and Nuclear Regulatory Commission (NRC) requirements. Conducted ionizing and non-ionizing radiation surveys (industrial, medical x-ray, special nuclear material, sealed sources, radar, and laser) and ensured compliance with two NRC radioactive material licenses. Established and managed base radiation protection program requirements (ALARA goals, training, etc), and monitored whole body, extremity, and neutron doses of more than 50 radiation workers in 7 exposure areas through base dosimetry program. Briefed 509th Operations Group Base Command on Radiation Safety Program.

Special Projects Manager - Served as Bioenvironmental Engineering unit advisor and trainer for industrial hygiene technical matters. Conducted risk assessments to identify teratogenic reproductive hazards for all pregnant workers on base and provided duty restrictions to attending physician. Directed all high-profile occupational incident and illness investigations (radon, radiation exposures, asbestos, indoor air quality, surgical suite HVAC problems, tuberculosis quarantines, bioaerosol issues, and carcinogenic aircraft composite constituent studies). Worked with Chief of Aerospace Medicine to determine occupational exposure medical surveillance and monitoring requirements.

**Director, Industrial Hygiene Section, Bioenvironmental Engineering
United States Air Force, 509th Operations Group, 509th Medical Group
Whiteman Air Force Base, Missouri
March 1991 - January 1992**

Planned, implemented, and monitored adequacy of comprehensive occupational health program supporting 90 industrial facilities, 40 missile launch sites, and 2 reserve bases. Scheduled and assigned workload for five industrial hygiene technicians. Coordinated all environmental and special projects studies (air, soil, water, noise, radiation, asbestos, ventilation). Managed several base programs including, respiratory protection, hazard communication, confined space, and radiation dosimetry. Served with occupational physician on Occupational Health Exposure Committee, which established medical surveillance and biological monitoring requirements for more than 3,000 workers. Reviewed plans and hazardous materials requests for environmental

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and health directives compliance, determined hazard codes for carcinogen product usage, handling and disposal requirements, evaluated engineering controls, and recommended personal and area exposures.

**Manager, Industrial Hygiene Section, Bioenvironmental Engineering
Unite States Air Force, 52nd Tactical Fighter Wing, 52nd Aerospace Medical Group
Spangdahlem Air Force Base, (West) Germany
November 1987 - March 1991**

Industrial Hygiene Section Manager - Scheduled and prioritized industrial hygiene evaluations and special projects for 130 industrial facilities and 3 support bases. Assigned workload to four industrial hygiene technicians and managed human and technical resources to ensure its timely completion. Conducted special surveys and incident and accident investigations and wrote summary reports. Directed training and prepared technical guidance for implementation of base occupational exposure programs (asbestos, hazard communication, risk assessments, respiratory protection). Tracked on-site and off-site environmental monitoring status on database and determined sampling priorities, strategies, and appropriate methods. Researched toxicology of highly hazardous products and substituted less toxic products for use. Served on base disaster response team (aircraft and weapon accidents, chemical and fuel spills, and fire incidents). Negotiated with local German union representatives regarding use of protective equipment and exposure monitoring requirements for base construction trades activities.

Industrial Hygienist - Conducted baseline, annual, and special occupational health evaluations of aircraft fabrication, maintenance, launch, weapons, radar, communication, vehicle maintenance, allied construction trades, welding, and medical center facilities. Collected exposure data, updated workplace and medical exposure casefiles. Prepared occupational workplace summary reports for the 52nd Medical Group flight surgeon and base medical director addressing engineering controls, protective equipment adequacy, chemical exposure risk assessments, ergonomics, and overall USAF, OSHA, and EPA directive compliance.

Emergency Response Team - Served as member of base emergency response team, which advised on-scene commander on establishing toxic corridors, health hazards, required protective equipment, and environmental impact from spills, aircraft accidents, weapon incidents, and special nuclear material loss or releases including determining radiation stay times, tracking radiological doses, and measuring fallout to establish radiation and contamination boundaries.

Wartime Duties - Wartime duties consisted of providing all nuclear, biological, and chemical (NBC) exposure monitoring to base commander and medical director during North Atlantic Treaty Organization (NATO) and U.S. Air Force Europe attacks in theater, establishing duty station at 2nd echelon hospital, and deployed wartime locations. Served on 2nd echelon hospital decontamination team decontaminating patients arriving at hospital, performed unexploded ordinance (UXO) sweeps following conventional warfare attacks, utilized chemical warfare agent (CWA) monitoring kits following chemical attacks, and performed all radiological monitoring and stay-time calculations following nuclear device detonations or radioactive fallout.

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Professional Development and Training

Attended more than 80 American Industrial Hygiene Association (AIHA) professional development course (PDCs) (continuing education) for American Board of Industrial Hygiene (ABIH) Certified Industrial Hygienist (CIH) certification maintenance. Course in industrial hygiene, exposure assessment, and other technical courses have completed annually since 1993 in the fields of construction safety, accident investigations, medical surveillance, exposure modeling and banding, biostatistics, epidemiological studies, occupational exposure limit adjustment, remediation technology and engineering, microbial and bioaerosol investigations, legal and expert witness/testimony, Biosafety Level 3 laboratory assessments and practices, and other industrial hygiene and safety related topics. A complete list of PDC courses completed is available upon request.

Department of Energy-Specific training includes -

- DOE Radiological Worker I & II Instructor (Mr. Miller was a DOE RW I & II Training instructor to DOE and contractors at the DOE Idaho National Laboratory)
- DOE Radiological Worker II
- Nuclear Criticality Safety
- Radiological Glovebag Installation, Inspection, and Use
- DOE Conduct of Operations and Maintenance
- OSHA 40-Hour HAZWOPER (with 8-hour refresher courses)
- OSHA HAZWOPER Site Supervisor
- OSHA Confined Space Entrant, Attendant, and Job Entry Supervisor
- Respirator Qualification Training (APR and supplied air)
- Medic 1st Aid/CPR
- HAZMAT General Awareness (DOT Sample Shipping)
- EPA CERCLA/RCRA TAA and SAA Inspections
- OSHA Institute - Indoor Air Quality Investigations

U.S. Air Force Training includes but not limited to:

- Industrial Hygiene Advanced Topics, USAF School of Aerospace Medicine
- Radiological Health Physics Course, USAF School of Aerospace Medicine
- Bioenvironmental Engineering Technician Course, USAF School of Aerospace Medicine.

Presenter and Instructor Courses

- Course Developer and Instructor: AIHA Professional Conference on Industrial Hygiene (PCIH) 2010, *WS-4 Mock Trial: Multi-employer Work Site*, Dallas, TX October 11, 2010.
- Arranger, Moderator, Presenter: American Industrial Hygiene Conference and Exhibition (AIHce 2009), Round Table - *249 Mock Trial: Liability Issues for the Industrial Hygienist*, June 4, 2009,

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Toronto, Canada.

- Presenter: AIHce 2008, Round Table - *209 Mock Trial: Meth Lab Cleanup*, June 2, 2008, Minneapolis, MN.
- Course Developer/Instructor: AIHA Teton Local Section Professional Development Conference, *OSHA Multi-Employer Worksite Compliance*, December 9, 2005, Idaho Falls, ID.
- Speaker: Advanced Perspectives in Mold Prevention & Control: *Crafting Professional Judgment for Assessment & Remediation Approaches to Varying Occupancies/ Building Types* (November 7-9, 2004 Riviera Hotel and Casino, Las Vegas, Nevada)
- Course Developer and Instructor: 2004 Idaho Governor's Health and Safety Conference Mold Investigation and Remediation, University of Idaho, Pocatello, ID.

Other Specialties/Experience

Extensive experienced in operation of multiple industrial hygiene, environmental, and radiological monitoring and sampling instruments and equipment.

- Air/Direct Reading: personal and area air samplers, multi-gas meters, PID, FID, IR, photoacoustical analyzer, portable GC, aerosol, thermal anemometer (ventilation), optical and laser particle counters.
- Environmental Media Characterization: conductivity/turbidity/dissolved oxygen/pH meters, coliwasa, bailers, environmental immuno-assay/ kits, soil augers (split, core, sludge, tube), liquid sampling pumps.
- Radiological Instruments: *Ionizing Instruments* - ion chambers, GM, scintillation, proportional counters, panoramic survey meter, *Non-Ionizing instruments* - infrared, radio frequency, radar, laser energy measurement instrumentation.
- Physical Hazard Monitoring: Noise meters/dosimetry, heat stress (WBGT), ergonomic stressors, vibration, infrared thermoimaging.
- Microbial Investigation/Sampling/Remediation: Culturable and nonculturable air sampling methodologies; collection of microbial specimens through direct tape lift, bulk sampling, dust collection; invasive inspection methods using borescopes, wall samplers; noninvasive inspection methods using non/penetrating moisture meters, infrared thermoimaging cameras, relative humidity measurements. Preparation of remedial specifications including establishing containment and decontamination areas, removal protocols, pre- and post-remedial sampling, and HVAC assessments.

Hardware and Software Capabilities

- Skilled in the use of Internet ES&H resources (toxicological registries and databases, exposure modeling, statistical exposure analysis, modeling, and program development)
- Proficient with various software packages (EXCEL, WORD, Power Point, ACCESS, exposure modeling) and their applications for occupational and environmental hygiene.

Professional Organizations

- Past Chair, Committee Member, American Industrial Hygiene Association (AIHA), Law Committee

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- Past Chair, Member, AIHA Consultants Special Interest Group
- Committee Member, AIHA Indoor Environmental Quality Committee
- Past Committee Member, AIHA Environmental Affairs Committee
- Member, American Industrial Hygiene Association.
- Member, Health Physics Society
- Associate Member, American College of Occupational & Environmental Medicine.

Security Clearance (previously held)

- Department of Energy (DOE) “Q” Clearance
- Department of Defense “Top Secret” Clearance)

Work History

2013 – Present: Health and Safety Services, LLC

2011 – 2013: North Wind Solutions, LLC

2009 – 2011: North Wind Group

2004 – 2009: North Wind, Inc.

1998 – 2004: Vortex Enterprises, Inc.

1995 – 1998: S.M. Stoller Corporation

1994 – 1995: Lockheed Martin Idaho Technologies Company

1993 – 1994: EG&G Idaho, Inc.

1991 – 1993: U.S. Air Force (USAF), Bioenvironmental Engineering, Whiteman Air Force Base, MO

1987 – 1991: USAF, Bioenvironmental Engineering, Spangdahlem Air Force Base, Germany

Publications

- DOE Report, "Chemical Safety Vulnerability Working Group Report," DOE/-0396P, September 1994 – as member of US DOE-HQ Chemical Safety Vulnerability Working Group.
- B.P. Miller, *Engineering Design File - OU 7-10 Staged Interim Action Phase II Respiratory Protection Requirements*, EDF-ER-171, July 6, 2000.
- Numerous Detailed and Standard Operating Technical Procedures (TPRs), project plans (PLNs), list (LST) documents, and Test Plans for DOE prime contractors at the INL (see list below).
- Numerous Health and Safety Plans for characterization, remediation, D&D, and treatment projects at DOE, DoD, BLM, and USACE facilities (see projects below).
- Sampling and Analysis Plans for private sector clients including matrices such as sand blasting media, hazardous sludges, petroleum contaminated soils, microbial, fungal, groundwater, etc.
- More than 200 microbial investigation and remedial specification documents for microbial affected residential, commercial, and industrial structures.
- B.P. Miller, 1992, Central Missouri State University Library, Department of Safety Science and Technology Technical Reference, *Radiological Hazards: Evaluation and Control*.

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Partial List – Technical Procedures & Health and Safety Plans

Department of Energy Projects

Technical Procedures/Test Plans

- Technical Procedure, TPR-154, “OU 7-13/14 Integrated Probing Project Operational Support Activities”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, May 21, 2001.
- Technical Procedure, TPR-1664, “Type B Probe Testing at the Cold Test Pit”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, November 30, 2000.
- Technical Procedure, TPR-1669, “Type B Probe Datalogging Procedure”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, April 2, 2003.
- Technical Procedure, TPR-1672, “Type B Soil Moisture Probe Installation”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, May 30, 2002.
- Technical Procedure, TPR-1672, “Type B Visual Probe Installation”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, July 16, 2001.
- Technical Procedure, TPR-1674, “Glove Bag Supported Sample Acquisition from Type B Probes in the Subsurface Disposal Area”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, August 16, 2001.
- Technical Procedure, TPR-1692, “Type B+ Probe Testing”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, September 3, 2002.
- Technical Procedure, TPR-1760, “Type A Probe Installation”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, May 29, 2003.
- Technical Procedure, TPR-6875, “Data Acquisition System Test For OU 7-13/14 Probing Project”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, June 11, 2003.
- Technical Procedure, TPR-1763, “Type B Tensiometer Operation and Maintenance”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, January 24, 2002.
- Technical Procedure, TPR-178, “OU 7-13/14 Site Preparation”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, April 23, 1999.
- Technical Procedure, TPR-179, “Probehole Installation OU 7-13/14”, DOE Idaho National Engineering & Environmental Laboratory, Environmental Restoration, April 23, 1999.
- Technical Procedure, TPR-1650, “Use of the Gamma Spectroscopy Logging System at the RWMC”, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, September 24, 2001.
- Technical Procedure, TPR-1650, “Use of the Gamma Spectroscopy Logging System at the RWMC”, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, September 24, 2001.
- Technical Procedure, TPR-7481, “V-Tanks – Supernate Consolidation, Sludge Removal and Tank Cleaning”, DOE Idaho National Engineering & Environmental Laboratory, Technical, November 30, 2004.

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- Technical Procedure, TPR-7515, “V-Tanks – Operate Off-Gas System”, DOE Idaho National Engineering & Environmental Laboratory, Technical, November 22, 2004.
- Technical Procedure, TPR-7514, “V-Tanks – Operate Consolidation Tank Systems and Perform Phase I Treatment”, DOE Idaho National Engineering & Environmental Laboratory, Technical, November 23, 2004.
- Technical Procedure, TPR-1629, “Overburden Screening”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, May 2, 2002.
- Technical Procedure, TPR-6649, “Geophysical Tomography”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, July 12, 2002.
- Technical Procedure, TPR-1697, “Waste Handling and Overpacking in Approved RCRA/CERCLA Storage Areas”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, April 30, 2003.
- Technical Procedure, TPR-1791, “OU 7-10–Initial Facility Startup”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, July 31, 2003.
- Technical Procedure, TPR-1788, “OU 7-10–Setup and Operate the Standby Power System”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, June 17, 2003.
- Technical Procedure, TPR-1789, “OU 7-10—Drum Repackaging”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 6, 2003.
- Technical Procedure, TPR-1792, “OU 7-10–Handle and Remove Overburden”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 4, 2003.
- Technical Procedure, TPR-1793, “OU 7-10—Retrieve Waste”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, June 10, 2003.
- Technical Procedure, TPR-1794, “OU 7-10—Waste Handling, Sampling, and Packaging”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 5, 2003.
- Technical Procedure, TPR-1795, “OU 7-10—Drum-In Materials and Drum Changeout”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, June 18, 2003.
- Technical Procedure, TPR-1796, “OU 7-10–Glove Change-Out Operations”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 1, 2003.
- Technical Procedure, TPR-1797, “OU 7-10–Waste Sample Storage and Transfer”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 6, 2003
- Technical Procedure, TPR-1798, “OU 7-10–Underburden Sampling and Sample Transfer”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, June 23, 2003

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- Technical Procedure, TPR-1799, “OU 7-10—Bag-In/Bag-Out Operations”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 6, 2003
- Technical Procedure, TPR-1801, “OU 7-10 – Set Up and Operate the Dust Suppression System”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 1, 2003
- Technical Procedure, TPR-1802, “OU 7-10—Set Up and Operate the CCTV System”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, July 8, 2003
- Technical Procedure, TPR-1803, “OU 7-10—Operate The Fissile Material Monitor”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 5, 2003
- Technical Procedure, TPR-1804, “OU 7-10—Drum Assembly”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 1, 2003.
- Technical Procedure, TPR-1805, “OU 7-10—Set Up and Operate Emissions Monitoring System”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, August 1, 2003.
- Technical Procedure, TPR-1806, “OU 7-10—Operation of the Ventilation System”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, July 3, 2003.
- Technical Procedure, TPR-1845, “Canberra CAS-300N Operation and Testing”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, May 29, 2003.
- Technical Procedure, TPR-1832, “OU 7-10—Characterization of Facility Structures”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, November 20, 2003.
- Technical Procedure, TPR-1833, “OU 7-10 – Decontamination of RCS”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, July 1, 2003.
- Technical Procedure, TPR-1834, “OU 7-10 – Decontamination of the PGS”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, July 28, 2003.
- Technical Procedure, TPR-1835, “OU 7-10—Grouting the Waste Zone”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, December 18, 2003.
- Technical Procedure, TPR-1836, “OU 7-10 – Immobilization of Residual Contamination”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, June 12, 2003.
- Technical Procedure, TPR-1837, “OU 7-10—Shutdown of WES Equipment”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, November 20, 2003.
- Technical Procedure, TPR-7370, “OU 7-10 Fogging the WMF-671 Primary Containment”, Glovebox Excavation Method Project D&D, DOE Idaho National Engineering & Environmental Laboratory, RWMC Technical, December 20, 2003.

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- Emergency Alarm Response Procedure, EAR-108, “OU 7-10–Respond to Fire”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC: OU 7-10 Emergency Alarm Response Manual, October 19, 2003.
- Emergency Alarm Response Procedure, EAR-127, “OU 7-10–Respond to Criticality Alarm”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC: OU 7-10 Emergency Alarm Response Manual, October 19, 2003.
- Emergency Alarm Response Procedure, EAR-128, “OU 7-10–Respond to Drum Explosion”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC: OU 7-10 Emergency Alarm Response Manual, October 19, 2003.
- Emergency Alarm Response Procedure, EAR-676, “Abnormal Radiological Situations”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC: OU 7-10 Emergency Alarm Response Manual, October 19, 2003.
- Emergency Alarm Response Procedure, EAR-676, “Abnormal Radiological Situations”, Glovebox Excavation Method Project, DOE Idaho National Engineering & Environmental Laboratory, RWMC: OU 7-10 Emergency Alarm Response Manual, October 19, 2003.
- Test Plan, Requirements and Test Plan for System Operability and Integrated Testing for the OU 7-10 Glovebox Excavator Method Project, ID-PLN-1154, December 4, 2003.

DOE Program & Project Health & Safety Plans

- WSHPD, “Worker Safety and Health Program Description for Idaho National Laboratory Construction Projects,”, 10 CFR 851 Compliance, Department of Energy, September 21, 2010.
- “Safety Management System and Environmental, Safety, and Health Program for Idaho National Laboratory Construction Projects,” Accelerated Retrieval Project VII (ARP VII) Facility and Ancillary Structures over Pit 10 West at the Subsurface Disposal Area (SDA), SMP-NWS, Department of Energy, September 9, 2010.
- “Construction Safety Plan for Idaho National Laboratory Construction Projects,” Accelerated Retrieval Project VII (ARP VII) Facility and Ancillary Structures over Pit 10 West at the Subsurface Disposal Area (SDA), SMP-NWS, Department of Energy, December 10, 2010.
- SSEHASP-10005-004, “Site-Specific Environmental Health and Safety Plan Drilling and Installation of Wells In support of Task Order 4,” Los Alamos National Laboratory, July 16, 2010.
- “Contract-Specific Safety Plan for Sandia National Laboratories New Mexico Technical Area 3 - Mixed Waste Landfill Evapotranspirative Cover Construction Project,” Albuquerque, New Mexico, Sandia National Laboratory, April 2009.
- NWI-LANL EP-Wide EHSP, “LANL Environmental Programs-Wide Environmental Health and Safety Plan for Projects at Los Alamos National Laboratory,” (10 CFR 851 Compliant), Los Alamos National Laboratory, August 26, 2008.
- “Beryllium Hazard Assessment National Energy Technology Laboratory – Albany,” U.S. Department of Energy, July 2007.
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