# Associate Resume

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## SUMMARY

Certified Health Physicist with 29 years of diversified health physics experience at commercial nuclear power plants, the DOE complex, and private industry. Areas of expertise include decommissioning, radiological program development and implementation, training course development and instruction, radwaste program implementation, environmental monitoring program review, and emergency preparedness program development. Participated in quality assurance (QA) program development and implementation activities, and has performed numerous programmatic assessments and audits. In addition, experience includes serving in the U. S. Navy's nuclear submarine overhaul program, as well as in the commercial fuel reprocessing industry.

## EDUCATION/TRAINING

BS, Radiation and Nuclear Technology, Oklahoma State University, 1976
AS, Radiation and Nuclear Technology, Oklahoma State University, 1973
Six Graduate Credit Hours, Radiological Sciences, University of Lowell, Lowell, Mass.
Six Graduate Credit Hours, MBA, Arizona State University
Radioactive Waste Packaging and Shipping Requirements, 1997
Health Physics Certification Review, University of Lowell, Lowell, Mass., 1983
Internal Radiation Dosimetry, University of Lowell, Lowell, Mass., 1980

## PROFESSIONAL AFFILIATIONS/CERTIFICATIONS

American Academy of Health Physics, 1983
National Registry of Radiation Protection Technologists, 1982
National Health Physics Society, Plenary Member
American Society of Health Physics, Power Reactor Health Physics Section, Member
Health Physics Society, New England Chapter, Member
Served as member of various industry task forces.

**EXPERIENCE**

*Assistant Project Manager & Sr. Radiological Engineer* *8/02-3/03*
**Bristol-Meyer Squibb Radiopharmaceutical Manufacturing Facility, New Brunswick, NJ**
**Duratek, Inc.**

Performed as member of a 5 person Health Physics staff (2 management personnel and 3 technicians) directing the decommissioning and preparations for final status survey of a former radiopharmaceutical manufacturing facility. (D&D activities were performed by a contractor construction company that reported to the Duratek Health Physics organization.) Routinely interfaced with NRC and New Jersey Department of Environmental Protection personnel. Implemented the Decommissioning Plan that was based on the Characterization Survey. Major role in preparation of the Final Status Survey Plan based on the MARSSIM manual. Performed the duties of the Project Manager when he was absent from the site. Provided technical support to the organization. Prepared final status survey packages for individual survey units.

*Sr. Radiological Engineer* *6/02-7/02*
**Yankee Rowe Nuclear Power Station, Rowe, MA**
**Duratek, Inc.**

Sr. Radiological Engineer reporting the Health Physics Manager. (The major work activity at this point at Yankee Rowe is the transfer of the spent fuel from the spent fuel pool to the newly constructed Independent Spent Fuel Storage Installation [ISFSI] that utilizes dry fuel storage technology.) Responsible for ALARA reviews and Health Physics Program technical support that included the development and implementation of an enhanced transuranic surveillance program, neutron dose rate analysis, personnel dose evaluations, procedure writing, both new procedures and revisions, and other support as assigned.

*Health Physicist* *01/97-4/02*
**Duke Engineering & Services (DE&S), Marlborough, MA**
Employed by Duke Engineering & Services (DE&S) from January 1997 through as a Health Physicist. (This includes one year with YAEC prior to their purchase by DE&S.) During this period, completed numerous field assignments, several of which are summarized below.

**EXPERIENCE - continued**

*Technical Specialist* *3/02*
**Yankee Rowe Nuclear Power Station, Rowe, MA**
**DE&S**

Served as the Health Physics Technical Specialist on a Readiness Review Team that reported to Yankee Atomic Electric (YAEC) personnel. The purpose of the team was to review the entire program developed by YAEC's Fuel Transfer Operations Contractor (FTOC) to take the spent fuel from the spent fuel pool to the Independent Spent Fuel Storage Installation (ISFSI) that utilized dry storage technology. I was responsible for reviewing Health Physics-related programs, processes and procedures against regulatory requirements and guidance and accepted industry practices. In addition, in accordance with the Readiness Review Team's charter, my review included an evaluation of the effectiveness of the incorporation of appropriate commitments made in the FTOC's FSAR, Technical Specifications, and other documents developed to support the license application.

*Software Configuration Management Group* *11/00-9/01*
**Yucca Mountain Project, Las Vegas, Nevada**
**DE&S**

Served as part of a software installation testing team that performed installation tests including identification and documentation of all installation discrepancies on project approved software including commercial codes and project-developed codes. This testing project was part of the project contractors' response and corrective action to a formal deficiency report issued by the DOE's Office of Quality Assurance.

*Technical Specialist* *06/00-11/00 and 9/01-4/02*
**Various locations**
**DE&S**

Served a technical specialist on several assessment teams. Assessments included vendor audits for utility clients and radiation protection program audits.

**EXPERIENCE - continued**

*Technical Specialist* *1/00-5/00*
**Yucca Mountain Project, Las Vegas, NV**
**DE&S**

Served as a technical specialist to the Performance Assessment Group. (This group was responsible for assembling all the numerous performance and design elements that comprised the high-level waste repository design into an overall site design.) Performed formal compliance reviews of scientific reports that were to be used as input into the Site Recommendation document that is to be submitted to the President of the United States.

***Project Supervisor/Health Physics Specialist, RadCon Department*** 01/99-09/99
**Idaho National Engineering & Environmental Laboratory (INEEL)**
**Idaho Falls, Idaho**
**DE&S**

Served as Project Supervisor for a team of five health physicists whose mission was to assist in implementing INEEL's RadCon Performance Excellence Plan (PEP). The PEP was prepared in response to Department of Energy (DOE) concerns with the RadCon Program's implementation. Specific duties included developing qualification standards for RadCon instrumentation personnel; developing and revising site procedures, particularly in the area of RadCon Program performance monitoring; and acting as Staff Assistant to the INEEL RadCon Manager.

Also, coordinated the implementation of a formal RadCon Program assessment effort that began assessing all program elements at all site facilities. Assessment criteria included all DOE regulations, orders and guidance, as well as Institute of Nuclear Power Operations (INPO) criteria and commercial nuclear power industry performance standards and practices.

***Health Physics Specialist, Quality Assurance Department*** 08/98-12/98
**Yankee Nuclear Power Station, Rowe, MA**
**DE&S**

Performed Radiation Protection Program audits, assessments and surveillances during decommissioning activities. Duties included overseeing radwaste package and shipment preparation activities. Also, assisted in other audits and surveillances of the final site radiological survey, industrial safety, maintenance and operations areas.

**EXPERIENCE - continued**

***Nuclear Oversight Engineer*** 01/97-08/98
**Connecticut Yankee Nuclear Power Station**
**DE&S**

Assigned as a Staff Engineer in the Nuclear Oversight Department. Responsible for performing program audits and surveillances primarily in the Health Physics and Radioactive Waste program areas. During this period, major changes to the Health Physics Program were being made as a result of a Nuclear Regulatory Commission (NRC) confirmatory action letter. The site was also transitioning from operational to decommissioning mode.

In addition, participated as the Nuclear Oversight Department representative to the Reactor Coolant System (RCS) Chemical Decontamination Project Team.

***Program Assessment Specialist*** 08/96-09/96
**Waste Isolation Pilot Plant (WIPP), Carlsbad, N.M.**
**National Fire & Medical Services, Inc.**

Performed a needs-based assessment of Emergency Preparedness Program elements to prepare for a DOE operational readiness review. This was the first site assessment performed to the new requirements of DOE Orders 151.1, 420.1 and 440.1. The assessment included a programmatic and performance-based review of current site programs in order to evaluate them against DOE compliance criteria and identify deficiencies. A comprehensive report was prepared and submitted to WIPP management.

***Senior Radiological Engineer,*** 01/94-08/96
**Radiological Engineering & Decommissioning Services**
**Scientific Ecology Group, Oak Ridge, Tenn.**

Provided technical support for various projects, including Fort St. Vrain and several other decommissioning and remediation projects. Work included developing and reviewing work plans, site health and safety plans, site sampling plans and site characterization data. Also, ensured compliance with federal and state regulations and site-specific requirements.

Worked on procedures in order to incorporate 10CFR20 revisions for decommissioning projects. Prepared license amendments to support expanded activities at Scientific Ecology Group (SEG) facilities. Developed and implemented a radiation protection program for work on contaminated components at a non-nuclear turbine manufacturing facility. Worked on emergency radioactive source recovery and disposition at a scrap metal facility. Provided program revisions, including procedure rewrites supporting upgrades to SEG's Radiation Protection Program for its waste

**EXPERIENCE - continued**

processing operations. Also, developed and revised procedures supporting SEG decommissioning projects. In addition, developed lesson plans and classroom instruction for SEG health physics technicians.

From September 1995 to February 1996, served in SEG's Corporate QA Department to address program deficiencies identified in customer audits. Also, assigned to the QA Department of SEG's Advanced Systems Group in Carlsbad, N.M. to address additional program deficiencies and to integrate requirements with the corporate program. Both assignments involved identifying root causes, developing corrective action plans, and monitoring and reporting on corrective action implementations.

***Manager, Radiation Protection Technical Services*** 04/92-01/94
**Palo Verde Nuclear Generating Station, Phoenix, Ariz.**
**Arizona Public Service Company**

Responsible for a department of 30 people providing technical services supporting a three-unit site. Responsible for all utility efforts associated with implementing revised 10CFR20 requirements, including all program and procedure revisions, and Radiation Protection Department and site-wide training. Other responsibilities included the internal and external dosimetry program, and the site ALARA program. Also, developed radiation protection (RP) policies, maintained the RP program and its procedures, evaluated new equipment and techniques, and provided technical assistance to each unit's RP staff. In addition, held full responsibility for a $2 million operating budget.

***Senior Health Physicist*** 06/89-04/92
**NUTECH Engineers, Inc., Plymouth, Mass.**

Provided technical guidance, expertise and operational health physics services to utilities. Developed strategies for implementing revised 10CFR20 requirements. Evaluated health physics programs. Responsible for reviewing and evaluating emergency preparedness programs, developing exercise data, and conducting and critiquing drills and exercises.

Developed and conducted a 10-week health physics training course for five engineers from the Korean Electric Power Operating Service Company.

Served as Technical Assistant to Nine Mile Point Nuclear Power Station's Radiation Protection Manager (RPM). Primary responsibilities involved coordinating the RP Department's participation in Unit 1's formal restart program following a 30-month shutdown.

**EXPERIENCE - continued**

In addition to health physics duties, managed and coordinated activities of other health physicists providing utility services.

***Radiological Section Manager*** 06/88-06/89
**United Energy Services Corporation, Atlanta, Ga.**

Managed professional engineers providing assistance to nuclear utilities in health physics, chemistry, emergency planning and radwaste activities. Duties included marketing, recruiting and project budget control. Also, performed radiation protection program assessments for three nuclear utilities.

**Boston Edison Company** 05/77-06/88

Several positions in Health Physics in support of Pilgrim Nuclear Power Station. Duties and responsibilities summarized below.

***Senior Radiological Engineer, Radiological Operations Support Group*** 09/85-06/88
**Pilgrim Nuclear Power Station**
**Boston Edison Company**

Responsible for the whole body counting (WBC) program, health physics counting room operations, the health physics instrument repair and calibration program, and internal dosimetry program development and implementation. Duties included supervising one supervisor, three lead technicians and 20 technicians.

Other duties routinely involved incident investigations and evaluations, which included developing and implementing corrective actions; and other special projects requiring a technical background in health physics, such as beta skin dose calculations and litigation case preparation.

Served as the primary interface between the company, the Edison Electric Institute (EEI) and the Atomic Industrial Forum (AIF) for health physics-related activities.

**EXPERIENCE - continued**

***Senior Radiation Protection Engineer,*** 10/79-08/86
***Environmental Radiological Health & Safety Group***
**Corporate Office**
**Boston Edison Company**

Developed and implemented corporate radiation protection objectives and action plans. Monitored and assessed the impact of health physics-related regulatory activities, which included participating in various industry organizations. Assisted the Pilgrim Station Health Physics staff as assigned.

Assisted in revising Pilgrim Nuclear Power Station's Emergency Plan by preparing emergency plan implementation procedures, procuring and installing new emergency facilities and equipment, and training emergency response personnel. Duties also included developing and implementing comprehensive exercises.

Assigned to Pilgrim Station's Health Physics staff during three refueling and maintenance outages. Served as Senior Health Physics Engineer, reporting to the Radiation Protection Manager (RPM). Work included a 1984 assignment to develop and implement an ALARA program for a refueling and maintenance outage that included recirculation pipe replacement work.

***Health Physics Supervisor*** 05/77-10/79
**Pilgrim Nuclear Power Station**
**Boston Edison Company**

Implemented Pilgrim Nuclear Power Station's Radiation Protection Program, which covered internal and external exposure control, area surveys, contamination control, decontamination efforts, job planning, respiratory protection, procedure development, emergency equipment and procedures maintenance, and refueling outage supervision. The program also covered equipment maintenance, selection and operation.

In addition, held supervisory duties for approximately 20 permanent and contract health physics technicians during non-outage conditions.

**EXPERIENCE - continued**

***Radiation Control Engineer*** 08/76-05/77
**Ingalls Nuclear Shipbuilding Company, Pascagoula, Miss.**

Implemented internal and external exposure control and environmental monitoring programs. Operated a thermoluminescent dosimetry (TLD) reader and whole body counter, and performed quantitative and qualitative analyses on environmental samples.

***Full-Time Student*** 08/75-07/76
**Oklahoma State University, Stillwater, Okla.**

Returned to college to complete a Bachelor of Science degree.

***Health Physics Technician*** 08/74-08/75
**Barnwell Nuclear Fuel Plant, Barnwell, S.C.**
**Allied General Nuclear Services**

Assisted in developing a radiation protection program for a spent fuel reprocessing plant. Developed procedures, evaluated and procured equipment, and trained personnel.

***Health Physics Technician*** 05/73-08/74
**Midwest Fuel Reprocessing Plant, Morris, Ill.**
**General Electric Company**

Served as an on-shift technician responsible for radiation protection requirements, including job surveys and equipment operation. Also, established protective clothing and other safety requirements. In addition, controlled operations and activities involving spent reactor fuel receipt and storage.