

Professional Resume

James K. Alexander, P.E.

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EXPERIENCE/EDUCATION SUMMARY:

Thirty-two years of technical and management experience related to air and water pollution control, management of radioactive and hazardous waste, general environmental compliance, safety and health compliance, quality assurance, nuclear facility safety, and related oversight and training programs at various DOE sites, other government agency facilities, and private industry facilities. Extensive experience in: (1) Clean Water Act, Clean Air Act, RCRA, and CERCLA environmental regulatory compliance program development, (2) NEPA compliance, (3) safety and health regulatory analysis, (4) development of nuclear facility safety analysis documentation (BIOs, USQDs), (5) environmental compliance project planning and oversight, (6) environmental permitting coordination functions pursuant to all the major federal environmental statutes, and (7) radiological and chemical dose reconstruction.

Degrees and professional certifications include: (1) B.S., Environmental Engineering, University of Tennessee, 1972; (2) MSCE (Environmental), Polytechnic Institute of Brooklyn, 1974; (3) MPA (Public Administration), New York University, 1974; (4) 23 Graduate Semester Hours, Radiation Health Physics, University of Tennessee, 1981-1988; (5) Registered Professional Engineer (TN PE License # 12392); (6) Adjunct Instructor, Environmental Law, University of Tennessee Engineering Graduate School, 1989-2002.

EMPLOYMENT HISTORY:

Oak Ridge Associated Universities (ORAU) ORAU Dose Reconstruction Project for NIOSH Oak Ridge, TN 37830	Position: Health Physicist III Supervisor: Nancy Daugherty, Quality Assurance Manager Telephone: (303) 463-3570	July 2004 - Present
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Responsible for quality assurance support to the National Institute of Safety and Health's Dose Reconstruction Project mandated by the Energy Employees Occupational Illness Compensation Program Act (EEOICPA). Participate in formal assessments and surveillances of the Project's work processes and provided technical oversight and support to the development of various DOE site technical profile documents and the preparation of claimant dose reconstructions. Supported development of the Project Management Plan (PMP), Quality Assurance Program Plan (QAPP), Baseline Milestone Schedule, Baseline Budget, Staffing Plan, Training Program Plan, and Performance Indicators and Measurements Procedure.

BNFL Inc. East Tennessee Technology Park Oak Ridge, TN 37830	Position: Regulatory Compliance Manager Supervisor: James Brogger, Facility Safety Manager Telephone: (865) 241-9937	July 1999 – July 2004
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Responsible for compliance coordination for state and federal laws/regulations, DOE interagency agreements, and DOE Orders for a multi-million dollar former nuclear fuel enrichment facility D&D project in Oak Ridge, Tennessee. Specific duties included: (1) reporting and general compliance with air emissions and wastewater discharge permits, (2) emergency response technical support for hazardous spills and day-to-day control of oil and hazardous chemicals (waste minimization/ pollution prevention), (3) safety authorization basis program management and Basis of Interim Operations (BIO) document updates, preparation of unreviewed safety question determinations (USQDs) and USQD screens, and preparation of Documented Safety Analysis Change Packages, (4) reporting pursuant to the Emergency Planning and Community Right-to-Know Act, (5) support to the BNFL Integrated Safety Management System (ISMS), (6) subject matter expert (SME) for environmental protection and authorization basis compliance, (7) coordination of readiness assessments pursuant to DOE Order 425.1, (8) coordination of occurrence reporting pursuant to DOE Order 231.1A.

Systematic Management Services (SMS) 117 Broadway Oak Ridge, TN 37830	Position: Program Manager/Project Manager Supervisor: Dilup Kilkarni, President Telephone: (301) 353-0072	November 1994-June 1999
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Managed up to 27 professional staff servicing SMS's environmental protection, health and safety, quality assurance, nuclear facility safety, and training technical support contract to the Department of Energy's Site Offices at the Y-12 Plant, the Oak Ridge National Laboratory, the High Flux Isotope Reactor, and the K-25 Site. Environmental compliance support functional areas included remedial action projects, NEPA documentation, waste management, air and water pollution control, and environmental monitoring. Safety and health compliance support functional areas include radiological contamination control, health physics, industrial hygiene, industrial safety, nuclear facility safety, fire protection, transportation safety, and PAAA compliance.

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Roy F. Weston, Inc. (WESTON)
Oak Ridge Branch Office
Oak Ridge, TN 37830

Position: Project Director
Supervisor: Raymond F. Bogardus
Telephone: (610) 913-0975

August 1992-November 1994

Responsible for operation and business development for the Roy F. Weston Office in Oak Ridge, Tennessee. Managed the activities of up to 25 professional staff in three technical specialty sections: (1) Environmental Engineering and Safety and Health (ES&H Section), (2) Ecological Assessment Services, and (3) Hydrogeologic Support Services. Major contract clients included Martin Marietta Energy Systems, EG&G at DOE's Mound facility, several state and local government agencies, and private industry and financial sector clients.

PAI Corporation
116 Milan Way
Oak Ridge, TN 37830

Position: Program Manager
Supervisor: Doan L. Phung, President
Telephone: (865) 483-0666

February 1989-August 1992

Responsibility for technical and administrative management of multiple projects for health and safety, environmental protection, quality assurance, database management, and general engineering and other technical support services under several major PAI contracts with the Department of Energy, DOE's operations contractors, and Department of Defense agencies. Direct technical supervisory responsibility for up to 50 full-time or part-time associates. Specific contract program management responsibilities included: (1) ESH&QA support to DOE/ORO and Martin Marietta Energy Systems (1989-1991), (2) ESH&QA support to DOE/Nevada (1989), (3) ESH&QA support to DOE/San Francisco (1990-91), and (4) ESH&QA support to DOE/Pinellas Plant (1991-92). In addition to the PAI contract program management functions, also served as project manager for numerous specific tasks assigned by OR, NV, SAN, and Pinellas in their environmental, safety and health, quality assurance, and health physics program areas.

Advanced Sciences, Inc. (ASI)
165 Mitchell Road
Oak Ridge, Tennessee 37830

Position: Senior QA Engineer
Supervisor: M. L. Nicol, Vice President
Telephone: (865) 481-8689

September 1988-February 1989

Assigned to various tasks associated with the development of environmental and quality assurance documentation, particularly for environmental program elements at DOE's Y-12 Plant and the Fernald Site D&D Project.

U.S. Department of Energy (DOE)
Oak Ridge Operations (ORO)
Oak Ridge, Tennessee 37831

Position: Environmental Engineer
Supervisor: Jerome F. Wing
Telephone: (865) 482-2842

July 1975-September 1988

Job functions included: (1) Clean Water Act and National Environmental Policy Act compliance functions for Oak Ridge Operations and comprehensive technical oversight of all environmental compliance programs at the K-25 Site (7 years), (2) Project Manager/Regulatory Compliance Coordinator for DOE's Formerly Utilized Sites Remedial Action Program (FUSRAP) and the ORO Surplus Facilities Management Program (SFMP) (4 years), and (3) EIS coordination activities and preliminary environmental permitting initiatives for two large Solvent Refined Coal (SRC) liquefaction projects (2 years).

Tennessee Valley Authority (TVA)
801 Broad Street
Chattanooga, TN 37202

Position: Environmental Engineer
Supervisor: David Daugherty

July 1974-July 1975

Assigned various technical support functions in the TVA Office of Power's Environmental Research Section: (1) analysis of potential impacts of proposed environmental protection regulations on TVA's power system operations, (2) thermal discharge analysis used in the Environmental Impact Statements for the Hartsville and Phipps Bend Nuclear Power Plants, and (3) technical support to the wastewater discharge permit negotiations for Brown's Ferry Nuclear Plant and Kingston and Bull Run Coal-Fired Plants.