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PROFESSIONAL SUMMARY

Environmental professional with 26 years experience in environmental compliance and policy for both the government and private sector clients. Managed and prepared National Environmental Policy Act (NEPA) documentation for the U. S. Nuclear Regulatory Commission (NRC) as a contractor and for other Federal customers including the U. S. Department of Energy (DOE), the U. S. Army, and the National Aeronautics and Space Administration (NASA). Effective program and project manager experienced in managing a variety of contract vehicles; recipient of superior customer ratings. Technical expertise in subsurface hydrogeologic investigations ranging from conducting site investigations for the feasibility of hazardous waste disposal for private sector clients to conducting comprehensive subsurface geologic investigations to develop oil and gas prospects for the petroleum industry.

EXPERIENCE AND ACCOMPLISHMENTS

2007 – Present *U.S. Nuclear Regulatory Commission*

Project Manager within the Division of Waste Management and Environmental Protection.

- **Low-Level Waste Branch**. Managing NRC activities at the Idaho National Laboratory related to the disposal of incidental waste at the Idaho Nuclear Technology and Engineering Center Tank Farm Facility per NRC's responsibilities under the National Defense Authorization Act for Fiscal Year 2005 which includes the conduct of onsite observations and interfacing with both DOE and the State of Idaho. Supporting the development of responses to stakeholders regarding the management of low-level waste.

- **Environmental Review Branch.** 02/07 – 07/08. Either completed or supported the completion of the tasks identified below:

  Shieldalloy Metallurgical Corporation. Managed the preparation of an EIS for the first long-term control (LTC) license requested by a licensee. Reviewed the docket file to gain insight on the historic communications between NRC staff and the licensee, to determine the available information to support NRC decisionmaking, and to gain an understanding of public sentiment. Issued the scoping summary report from the December 2006 public scoping meetings for the EIS and environmental requests for additional information (RAIs); interfaced with the Office of General Counsel related to the sensitivity of information presented in the EIS and with respect to responding to the Atomic Safety Licensing Board; interfaced closely with the safety review team in the Materials Decommissioning Branch in the review of responses to safety RAIs, in preparing for a meeting with the U.S. Environmental Protection Agency (EPA) regarding their concerns with the issuance of a LTC license, and in resolving technical issues identified by NRC staff. Reviewed and commented on preliminary draft EIS chapters and met with the EIS

contractor to review comments.

International Isotopes, Incorporated. Performed a quick turnaround review to prepare and issue a categorical exclusion in support of a licensing action within the Fuel Cycle & Safety Safeguards division of NMSS.

Jefferson Proving Ground. Supported staff in the Materials Licensing Branch in preparing responses to hearing contentions.

Pa'ina Hawaii Irradiator. Supported staff from Region IV in the issuance of the Final EA and Finding of No Significant Impact (FONSI) for an underwater irradiator located in the State of Hawaii. Managed the task with the Center for Nuclear Waste Regulatory Analyses who prepared the draft and final "Topical Report on the Effects of Potential Aviation Accidents and Natural Phenomena at the Proposed Pa'ina Hawaii, LLC, Irradiator Facility" that evaluated the effects of natural phenomena and various accident scenarios.

2001 - 2007 *Dade Moeller & Associates, Inc.*

Established the and office manager for the Fairfax, Virginia office of Dade Moeller & Associates and the program manager on two DOE Headquarters support contracts as described below:

- **Technical Support Services for the DOE Office of Policy and Guidance.** Program manager for work performed under this task order contract responsible for staffing, budgeting, subcontract management, troubleshooting, and overall program management for tasks. Managed the completion of 44 tasks with work performed by more than 15 staff members in addition to subcontractor staff.

- **Technical, Analytical and Administrative/Publication Contract Support for the DOE Office of National Environmental Policy Act Compliance.** Program manager for work performed under this support contract to DOE. Approximately 85 tasks were completed that included the review of environmental documentation of varied complexity, the preparation of guidance related to the implementation of NEPA, the development and maintenance of databases, and meeting support. Responsible for day-to-day management including staffing, budgeting, the management of two subcontractors, and overall program management.

1989 – 2001 *Science Applications International Corporation*

Supported the following clients on a variety of projects:

- **U. S. Nuclear Regulatory Commission (NRC)**. 1990 to 1998. Managed or contributed to the preparation of seven environmental assessments (EAs) in support of NRC licensing actions. The EAs evaluated the environmental impacts of license renewals at nuclear fuel cycle facilities in Metropolis, Illinois; Richland, Washington; Erwin, Tennessee; Muskogee, Oklahoma; and Boyertown, Pennsylvania, as well as the environmental impacts from license termination at a facility in Crescent, Oklahoma, and from decommissioning a facility in Apollo, Pennsylvania. These assessments evaluated the environmental impacts from normal operational releases, accidents, and impacts to the environment from the

construction of an onsite disposal cell.

- **West Valley Demonstration Project.** 1992 to 2001. Deputy Project Manager for preparing a joint Environmental Impact Statement (EIS) for DOE and the New York State Energy Research and Development Authority (NYSERDA) that evaluated closure of the Western New York Nuclear Service Center. This project included analysis of complex technical and regulatory issues and evaluation of the risk from chemical and radiological contamination during an implementation phase and a long-term (1,000-year) period to evaluate different management alternatives. Day-to-day manager for this work including staffing, budgeting, and subcontract management. Received a DOE customer rating of "excellent plus" for the technical management of this contract.

- **U. S. Army, Aberdeen Proving Ground.** 1996. Reviewed alternative technologies for destroying the chemical munitions stockpile to develop a NEPA compliance strategy. The reviews included existing programmatic and site-specific NEPA documentation together with U. S. Army NEPA implementing regulations, NEPA case law regarding programmatic EISs, and the Records of Decision from previous NEPA documentation. Provided recommendations to the Army for a path forward.

- **National Aeronautics and Space Administration (NASA).** 1990 to 2000. Supported three NASA projects including the preparation of a Comprehensive Environmental Response, Compensation, and Liability (CERCLA) preliminary assessment of 17 sites at the Plum Brook Station south of Sandusky, Ohio; the preparation of an Environmental Resources Document for Moffett Field, California that included an aggressive one week review of soil, sediment, ground water, and surface water data collected under three separate programs to compile it to characterize the nature and extent of contamination; and the preparation of an Environmental Report for Plum Brook Station in support of decommissioning the NRC-licensed Plum Brook Reactor Facility.

- **U. S. Army Corps of Engineers (USACE) St. Louis Formerly Utilized Sites Remedial Action Program (FUSRAP).** 1992 to 1998. Managed the EIS portion of an integrated Feasibility Study/ Environmental Impact Statement (FS/EIS) prepared in accordance with the requirements of CERCLA and NEPA. Developed a strategic work plan for completing the feasibility study and developed a proposed plan for north county sites. Ensured a Record of Decision was reached by Congressionally mandated dates. Prepared the Record of Decision for the Madison Site, a CERCLA site comprising a portion of the St. Louis FUSRAP site.

- **DOE Office of Civilian Radioactive Waste Management.** 1996 to 2001. Supported the Yucca Mountain Site Characterization Office on several assignments. Managed the preparation of a comment summary document identifying key issues to be addressed in the Yucca Mountain EIS. In addition, performed an independent NEPA review of the EIS with representatives from the U. S. Navy and DOE prior to public release of the Draft EIS to identify potential vulnerabilities. As a result of this work, the DOE project manager requested my involvement in the public comment/response process to ensure the adequacy of DOE responses to public comments on the Draft EIS.

- **U. S. Army, Jefferson Proving Ground.** 2001. Managed the preparation of an Environmental Report for use by the U. S. Army in supporting their request to terminate their NRC license to possess depleted uranium (DU) to meet restricted release criteria. This

report characterized the baseline existing environment and evaluated the nature and extent of contamination from historic DU operations at the site.

1987 – 1989 *Golden StrataServices, Inc., Houston, Texas*

Environmental manager for underground injection control programs. Supervised the preparation of both petitions for a demonstration of no migration as required for the land disposal restrictions enacted through the Hazardous and Solid Waste Amendments and permits for Class I injection wells:

- **Petitions for a Demonstration of No Migration.** Managed the preparation of nine petitions for a demonstration of no migration for major U. S. chemical manufacturers and the U.S. steel industry. These activities included proposal writing; generating cost and labor estimates; conducting comprehensive geologic and hydrologic investigations to adequately characterize the subsurface; developing conceptual models for predicting vertical and lateral movements of restricted hazardous wastes over a 10,000-year timeframe; and responding to Notice of Deficiency comments from the U.S. Environmental Protection Agency (EPA) Regions V, VI, and VII.

- **Permitting Class I Injection Wells.** Managed the permitting of Class I injection wells for hazardous and nonhazardous waste disposal for large petrochemical companies in Arkansas and Texas. Prepared scopes of work and associated labor estimates, visited sites to evaluate pertinent in-house data, supervised technical investigations, evaluated restrictive permit conditions, developed a regulatory strategy, and responded to comments from state regulatory agencies and the EPA. Conducted geologic feasibility studies to determine the potential for using subsurface formations for the disposal of hazardous and nonhazardous waste. Evaluated the impact of proposed disposal operations on hydrocarbon production in the area.

1981 – 1986 *Shell Oil Company, Houston, Texas*

As an exploration geologist, developed exploration plays for hydrocarbons in the Michigan Basin, southeastern Colorado (Hugoton Embayment), and the East Texas Basin. Conducted regional and local technical studies to delineate favorable areas for hydrocarbon accumulations; subsequent drilling in these preferred areas confirmed the presence of hydrocarbons. Interpreted seismic data to develop exploration plays and prospects. Calculated the economic risks of potential exploration plays using petrophysical and reservoir analyses to determine profitability. Operations geologist for a multimillion-dollar exploration venture in northern Michigan. Prepared drilling recommendations and drilling prognoses, coordinated drilling operations, and administered the leasing efforts for 200,000 acres. Field geologist for six exploratory tests drilled in Michigan, Arkansas, and southeastern Colorado.

AWARDS AND PROFESSIONAL AFFILIATIONS

Awarded the Environmental Excellence Award for superior project management by a former employer. Recipient of certificates of appreciation from federal customers including NASA and DOE.

EDUCATION/QUALIFICATIONS

M. S., Geology, University of California, Los Angeles, 1981
B. S., Geological Sciences, University of Texas at Austin, 1976