

---

**LARRY M. (MIKE) NOLAN**  
*Senior Waste Management Consultant*

*Dade Moeller & Associates, Inc.*  
*1835 Terminal Drive, Suite 200*  
*Richland, Washington 99354*  
*(509) 946-0410 ext. 269 - Fax 946-4412*

---

*Specializing in Occupational and Environmental Health Sciences*

---

## **EDUCATION/QUALIFICATIONS**

U.S. Navy, Nuclear Power Training Program, ELT (2 Years)  
U.S. Navy, Instructor Training

National Registry of Radiological Protection Technologists (NRRPT) – 1985

Chair, ASME Radioactive Waste Systems Committee

## **PRESENT POSITION**

Senior Waste Management Consultant, Dade Moeller & Associates

## **PROFESSIONAL SUMMARY**

Mr. Nolan has over 27 years experience in radiation protection, waste management, transportation, industrial safety program management, and waste minimization services as they relate to handling, treatment, packaging, transportation and disposal. He is known for taking over troubled programs and moving them quickly to compliance and excellence. He has developed and managed comprehensive industrial safety, radiation protection, and waste management-related training programs. Mr Nolan has performed radiological, waste management and industrial safety assessments at nuclear utilities and industrial radioactive materials licensees.

## **EXPERIENCE AND ACCOMPLISHMENTS**

- Improved waste management programs at nuclear utilities by performing assessments, drafting and executing action plans, and improving training programs. Resulted in improved morale, zero violations, a 50% decrease in waste generation, and cost savings of over \$500K.
- Developed mixed waste characterization and disposal plans. Evaluated long-term storage and disposal options. Developed and executed a sampling and analysis plans. Developed cost models and baseline change requests. Resultant savings of \$1 million savings by direct disposal.
- Improved radiation protection program at the LLW disposal facility, analyzing and determining resolution for over 150 compliance issues, with no items of non-compliance from subsequent regulatory inspections.
- Evaluated, analyzed and redeveloped Environmental Compliance Programs, resulting in cleaning up spills and hazardous waste areas, achieving regulatory compliance, and saving over \$150K.
- Planned and executed the disposal of high activity nuclear components, resulting in safe disposal and zero radiation exposure received (up to 53k Curies, 36,000 Rem/hr).
- Construction work planning at Hanford SNFP K-Basins including maintenance activities, FRS, CTFM and IWTS projects. Completed the planner's qualification program.
- Developed and conducted a training course for the nuclear industry on packaging/transportation of radwaste and material. Designed and refined training materials for specific customer needs; resulting

in a profitable and in-demand course; and adoption and recognition by the NRC.

- Served on a national steering committee with NEI, working with the NRC and DOT to revise radioactive material transportation regulations, resulting in adoption of numerous regulatory changes. Participated in regional low-level radwaste disposal site rate setting processes. Provided expert testimony. Served on national EPRI/ASME and NEI radwaste sub-committees. Reviewed legislation, pending regulations, supported LLW compact process, and interfaced with regulatory agencies.

2004 – 2008 *Bechtel Hanford, Inc. / Washington Closure Hanford, LLC, Richland, WA*

Subject matter expert (now waste services lead) for the Waste Management and Transportation Program. Responsible for review, interpretation, and implementation of US DOT regulations. Responsible for development and implementation of the waste management information system (WMIS), a waste management database, tracking program, and compliance document development tool. Responsible for solving waste management-related problems to assist waste generators in compliance with ERDF waste acceptance criteria. Conduct waste management-related internal assessments and surveillances. Certified as a Hanford waste shipper and designator. Responsible for waste management and transportation associated with the Hanford 618-10 & 11 burial ground design solution and characterization. Waste Management Lead for 300 Area Facility Remediation activities, including the high risk 618-7 site. USQ evaluator trained. Perform waste management and related independent assessments. Develop project start-up review checklists for the characterization and transport of spent nuclear fuel. Proficient in the use of MicroShield and Rad Calc computer codes.

2003 – 2004 *Lucas Engineering and Management Services, Inc., Richland, WA*

Conduct training program assessment at waste processing facility, followed by rewriting the training program to achieve excellence. Rewrote and conducted training courses for radiological workers, HP technicians, DOT shippers, and radwaste professionals. Rewrote radiation protection manual, radiation protection procedures, and drafted license amendments for waste processing facility. Developing emergency response procedures and operational readiness review procedures for bulk vitrification client. Interface with current and potential clients to increase market share at Hanford and other DOE and non-DOE clients. Developing work planning and technical documents in support of the DOE Second Line of Defense Program relating to the use of advanced detector systems to monitor for nuclear materials. Developing CERCLA documentation to support closure of Hanford Central Plateau waste sites and facilities.

2002 – 2003 *TRUTech, LLC, Richland, WA*

Responsible for waste management programs, closure plan development, regulatory strategy in support of Hanford single-shell tank program initiatives. Marketing activities associated with NitroCision decontamination, waste retrieval, and cutting systems in the food industry, waste management-related activities and DOD clients.

2002 *Jacobs Engineering Group, Richland, WA*

Senior environmental scientist and deputy project manager responsible for development of HLW tank closure plans and related documents in support of the Hanford Accelerated single-shell tank closure project. Principal engineer supporting the Mission Acceleration Initiative for the Hanford Site.

Responsible for development of regulatory bases documents, TRU waste classification and related issues, regulatory assessment and regulatory strategy documents, and strategic planning for accelerated tank closure efforts. Project manager for facility D&D approach document, including application of experience in cleaning out gunnite transuranic waste tanks and subsequent waste management and disposal.

2001 – 2002     *AMEC Earth & Environmental, Inc.*

Health & Safety Officer – Responsible to assure that OSHA, applicable State, and Company industrial safety and health requirements are adhered to, for the GeoMelt Waste Vitrification Division at the Richland Test Facility or other locations the Division is conducting operations. These responsibilities include, but not limited to, staff training, PPE requirements, chemical control, MSDS compliance, radiation protection, hazardous materials, secondary waste management, and assuring the work environment is safe. Performed dose assessments for GeoMelt-related activities.

Technology Applications – Responsible to the GeoMelt Unit Manager for sales and marketing support in the DOE, DOD and commercial business sectors, including production and follow-up of leads, writing proposals, oral presentations, cost estimates and other duties as assigned. Responsible for tracking and statusing business leads in North America and Abroad. Responsible for developing and tracking annual budgets.

1998 – 2001     *Waste Programs, Technical Resources International, Inc.*

Provide technical support for development and update of the Hanford SNFP Integrated Safety Management Plan, including but not limited to identification of hazards, environmental impacts and environmental safety and health requirements, analyzing workplace hazards and implementation of controls. Perform and review detailed job hazards analyses. Perform and review operational readiness reviews for SNFP systems. Preparation of construction work documents, industrial safety reviews and walk downs, and perform dose assessments, ALARA analyses and ALARA reviews, developed waste management plans, WAC compliance documents, sampling and analysis plans, and scheduling in support of the DOE Spent Nuclear Fuel Project. Developed a waste transport rail feasibility and logistics plan for RFETS. Provide project management support, dose assessments, dosimetry evaluations, cost models, and bid evaluations related to processing and disposal of highly radioactive components stored in a commercial nuclear plant spent fuel pools. Conduct environmental, health and safety, and radiological assessments at commercial nuclear facilities. Developed waste management plans for treatment, packaging and disposal (at Hanford, Envirocare, Barnwell) of LLW, LLMW, and TRU waste at DOE and commercial facilities. Conducted environmental assessments for LLW and LLMW processing facilities. Responsible for sales and marketing activities related to computer-based safety training programs and waste management-related services.

1997 – 1998     *RedHawk Environmental, Inc.*

Developed and implemented work plans, transportation programs, health and safety programs, and training programs to support the company specialty coating and consulting services. Project management for various projects on Federal installations. Provided sales and marketing support for sales of many different products and services. Developed test plans, field operations plans, dose assessments, radiological and industrial health and safety plans and training plans for the Hanford C-Reactor technology demonstration program (reactor cocooning).

1993 – 1996 *Plant WNP-2, Washington Public Power Supply System*

Developed, implemented and controlled hazardous, mixed and radioactive waste programs and policies, assuring compliance with applicable NRC, EPA and Washington State codes and regulations, consistent with efficient and cost effective plant operations. Managed professional and technical personnel in providing radioactive, solid and mixed waste programs including proper packaging, classification, and shipping of radioactive material and waste. Responsible for the industrial safety and health and environmental compliance program as applied to waste handling, packaging and transportation. Responsible for ORR development and performance for new radwaste systems. Performed industrial safety and health audits, assessments and surveillance's to verify compliance with OSHA, WISHA and local requirements.

1990 – 1993 *Trojan Nuclear Plant, Portland General Electric*

Managed a staff of up to 60 professional and technical personnel. Responsible for the radioactive waste program, including receipt, packaging, radiological safety, dose assessments, dosimetry evaluations, shipment, minimization and disposal of radioactive material/waste. Responsible to the plant manager for compliance with industrial safety and health requirements. Performed industrial safety and health audits, assessments and surveillance's to verify compliance with OSHA, ORE-OSHA and local procedural requirements.

1983 – 1990 *US Ecology, Inc.*

As radiological control and industrial safety and health officer at a low-level radioactive waste disposal facility, developed, implemented and controlled waste and industrial safety programs and policies, assuring compliance with applicable OSHA, WISHA, NRC, EPA and Washington State codes and regulations. Fully responsible for the personnel and environmental dosimetry program including dosimetry evaluations. Responsible for all industrial safety-related forms, records, and reports. Performed internal assessments of the industrial safety program to assure compliance with OSHA and WISHA requirements. Fully responsible for handling shipping casks weighing up to 250,000 pounds and associated disposal containers of irradiated hardware from commercial nuclear plants in the 53,000 curie and 36,000 Rem/hr range.

1973 -1983 *Trident Refit Facility, U.S. Navy*

Developed repair procedures and supervised nuclear repair work on Trident submarines. Supervised the chemistry program, developed, and supervised the training program for 100+ nuclear training officers and personnel.

Reactor Department Training Lead, USS Enterprise - Supervised the nuclear training program for over 500 officers and personnel