**Michael Malone, P.E.**

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***Career Overview***

Over 28 years of progressive experience in process design, chemical and mechanical engineering, cost estimating, project engineering and management, facility operations and maintenance, integrated project safety and quality, technology development, equipment procurement, fabrication, and installation; subcontract oversight, resource-loaded scheduling, earned value management, and program management. Demonstrated leadership and management of integrated project teams consisting of engineers, designers, safety disciplines, operations stakeholders, and specialized craft.

***Summary of Professional Experience***

 **January 2022 to Present – Project Engineer, Enrichment Science and Engineering Division**

**Oak Ridge National Laboratory, Oak Ridge, TN (Managed by UT-Battelle, LLC)**

* Project engineer for the design and construction of the Stable Isotope Production and Research Center (SIPRC) project, with an estimated total installed cost of $250M.
* Oversee planning and testing for technology research and development.

**December 2018 to January 2022 – Program Manager, Y-12 Program Integration**

**Y-12 National Security Complex, Oak Ridge, TN (Managed by Consolidated Nuclear Security, LLC)**

* Program Manager for nuclear facility deactivation and decontamination. Responsible for the management and execution of approximately $40 million per year in scope involving the nuclear deactivation and decontamination of structures and equipment in various production facilities.
* Specific responsibilities included reporting of financial and schedule performance, acquisition of resources and subcontract support, material procurements, development of project schedules and cost estimates, program risk management, presentations to senior leadership and Federal customers, and development of annual budget requests. Directly managed three different integrated project teams of engineers, safety specialists, construction craft, and waste management personnel, totaling over 100 individual team members. Also oversaw project managers responsible for planning and execution of other projects under the program portfolio.

**May 2015 to December 2018 – Senior Production Specialist/Project Lead, Y-12 Operations**

**Y-12 National Security Complex, Oak Ridge, TN (Managed by Consolidated Nuclear Security, LLC)**

* Reported to senior leadership on issues related to production capabilities and strategic planning. Developed strategic plans and presentations for facility transition and site transformation efforts, including cost estimates, schedules, and resource planning.
* Served as primary interface with Federal Customer (DOE/NNSA Headquarters). Provided briefings and tours to customers and other visitors to Y-12, including US/UK collaborations.

**July 2014 to May 2015 – Engineering Group Supervisor, Process/Mechanical Design
Y-12 National Security Complex, Oak Ridge, TN (Managed by Consolidated Nuclear Security, LLC)**

* Engineering group supervisor responsible for managing approximately 30 chemical and mechanical engineers and designers on the UPF project, with an estimated total installed cost of $6.5B.

 **January 2008 to June 2014 – Lead Process Design Engineer, UPF Project
Y-12 National Security Complex, Oak Ridge, TN (Managed by B&W Technical Services, LLC)**

* Process engineering design lead responsible for chemical processes on the UPF project. Managed approximately 10 engineers and designers.
* Developed engineering documents such as calculations, flow diagrams, drawings, equipment specifications, technical presentations, and supported safety/HAZOP design reviews.
* Coordinated project stakeholders, provided technical presentations, supervised subcontract engineering personnel, and tracked earned value for design activities.

**Michael Malone, P.E. (continued)**

**November 2004 to January 2008 – Project and Process/Mechanical Engineer
Alstom Power, Knoxville, TN**

* Project engineer on Kansas City Power and Light Iatan Unit 1 and 2 air quality control project. Managed approximately 50 engineers and designers in the engineering, procurement, and construction of a $200M upgrade to meet government regulations for atmospheric pollutants.
* Process/Mechanical lead for TVA Kingston Unit 9 SCR project, supporting construction, procurement, and start-up. Worked on project proposals, bid evaluations, and cost estimates.

**February 2001 to November 2004 – Process and Project Engineer
Jacobs Engineering, Oak Ridge, TN**

* Project and process engineer at Rohm & Haas Knoxville Plant. Responsible for executing various capital projects to upgrade plant systems per plant budget, schedule, and safety requirements.
* Process design lead on various Department of Energy and Department of Defense projects, including remediation of the DOE Fernald site and U.S. Army Chemical Demilitarization sites.

**January 1998 to February 2001 – Process Engineer
International Technology Group (purchased by Shaw/CBI), Knoxville, TN**

* Process design and project engineering on commercial and government environmental projects involving thermal treatment, air pollution control, and groundwater remediation.
* Developed calculations, flow diagrams, design drawings, specifications, and project cost estimates.

**October 1994 to January 1998 – Project and Field Engineer**

**Jacobs Engineering Group, Oak Ridge, TN**

* Project engineer responsible for earned value management, procurement, and cost estimating.
* Design engineering and field support, including construction oversight, environmental sampling, groundwater monitoring well installation, waste treatment, remediation, and site characterization.

***Education***

* B.S., Chemical Engineering, Minors in Chemistry and Economics,

The University of Tennessee, Knoxville, May 1994

***Licenses and Clearances***

* Registered Professional Engineer, State of Tennessee #105633, since July 2000
* U.S. Department of Energy Q Clearance (Active), since 2008
* U.S. Passport (Active)

***Training***

* 40-hour OSHA Hazardous Materials, 1995 and Hazardous Materials Transportation, 1996
* 8-hour OSHA HAZMAT Refresher, 2004 and 10-hour OSHA Construction Safety, 2005 (Alstom)
* Radiological Worker II, 2022 (ORNL) and Nuclear Criticality Safety, 2019 (Y-12)
* Project Management, 2001 (Jacobs) and Project Management Certificate Program, 2007 (Alstom)
* Earned Value Management, 2010 and Program Management University, 2019 (Y-12)

***Honors and Publications***

* U.S. DOE Pollution Prevention Award, 1996
* Consulting Engineers of Tennessee Engineering Excellence Award, 1997
* “Deactivation of Building 9206 – A Manhattan Project Era Facility”, presented at the 61st Meeting of the Institute of Nuclear Materials Management (INMM), July 2020
* “Nuclear Deactivation and Downgrade of Enriched Uranium Facilities at the Y-12 National Security Complex”, presented at the 62nd Meeting of INMM, July 2021