



TERRY L. MONTGOMERY, PE

EXPERIENCE SUMMARY

Independent Consultant – Longenecker & Associates

02/2014-Present

With Longenecker and Associates he has performed a number of reviews to improve the performance and lower costs of operation and projects for the Department of Energy (DOE) and the National Nuclear Security Administration (NNSA). He developed a procedure outlining how Quality Assurance (QA)/Quality Control (QC) requirements apply and are implemented on non-nuclear projects. He performed a Configuration Management Review for an Environmental Management facility. He developed the Quality Assurance Plan, Construction Project Data Sheet and Integrated Safety Management System Description for a Safety Significant Ventilation System (WIPP). Also, an evaluation was conducted and White Paper developed for the status of implementation of Nuclear Quality Assurance (NQA) for projects at the Los Alamos National Laboratory. Most recently he provided construction and startup testing technical analysis and problem solving solutions to the DOE Salt Waste Processing Facility Project Office.

Lead Auditor; QA Functional Lead – National Nuclear Security Administration (NNSA)

01/2008-01/2014

Provided Quality Assurance oversight for the NNSA non-proliferation projects at the Savannah River Site which included the MOX Fuel Fabrication Facility and Waste Solidification Building. Also included, until project termination, was the Plutonium Disassembly and Conversion Facility. He obtained and maintained certification by NA-26 as Lead Auditor under their NQA-1 compliant process. He performed ongoing monitoring and awareness of Fissile Materials Program and Project activities was provided through participation in the MOX Services Management Review Committee meetings, Weekly MOX Services Performance Assurance Manager staff meeting, and Waste Solidification Building Weekly Savannah River Nuclear Solutions/Baker Quality Assurance Meetings. He maintained ongoing communications with the Federal Project Directors (FPD), their staff and HQ NA-26 personnel which included discussions of quality assurance issues and requirements. His training included Nuclear Regulatory Commission (NRC) Quality Assurance Training, DOE Software training, and continuing education credit through participation at NQA-1 committee.

He served as the MOX Project Office Quality Assurance Functional Lead and participated in the MOX FPD's Plan of the Day and weekly staff meetings. Provided input to the MOX FPD as the lead evaluator for Quality Assurance Award Fee, including meetings with MOX Services to discuss this input. He performed and provided reports on numerous assessments of MOX Services to evaluate elements of their Quality Assurance Program including MOX Services implementation of quality assurance requirements and flow down of these requirements to their vendors in the US and Europe. He conducted assessments of MOX Services including assessments of work packages closure, corrective action program and self-assessment program and MOX Services oversight of its vendors and suppliers. Vendor oversight included vendor assessments of conventional, slab and annular tanks, glove boxes, fire dampers, pellet presses and mixers. Participated as a member of the MOX Services Management

Review Committee whose mission is overseeing implementation of the project's corrective action program. All condition reports were reviewed and discussed to ensure issues were adequately identified and appropriate significance level was assigned. This committee performed follow up reviews were performed on selected Condition Reports. He led an independent assessment to review adequacy of close out of corrective actions.

Support was provided to the Waste Solidification Building FPD and staff. Reviewed the Baker (the construction contractor) QA Program and Procedures in conjunction with Savannah River Nuclear Solutions review and approval of the Baker program. He provided oversight of Baker's submittal of QA records. He performed numerous assessments which included records submittals, welding, and corrective action program.

Supported activities associated with Plutonium Oxide production at the Los Alamos National Lab (LANL) and H-Canyon/HB-Line. He worked with MOX Services to ensure LANL and H-Canyon were on the MOX Services Approved Suppliers List. He performed a QA audit of LANL in conjunction with DOE staff at LANL.

He maintained cognizance of changing QA requirements/interpretations through participation in NQA-1 semi-annual meetings and Engineering and Procurement Processes subcommittee monthly calls. He reviewed ballots for proposed NQA-1 standard changes and voted for approval or provided comments. He participated in development and review of requests for interpretation of NQA-1 requirements and voted on acceptance of proposed responses.

Also, he supported NNSA HQ through review and comment on DOE Order 414.1D, and NA-26 QA Program revisions. He participated with NA-26 on NNSA-HQ audits of MOX Services and WSB. He provided training to the Federal Staff on the NA-26 QA Program and Subject Matter Expertise (SME) to NNSA on an assessment of the Uranium Processing Facility in Oak Ridge, TN.

Team Leader – Department of Energy (DOE)

09/2000-01/2008

His initial responsibility was as Team Leader in the High Level Waste Engineering Division (HLWD) and included oversight of Nuclear Safety for the Defense Waste Processing Facility (DWPF) and the Waste Compliance Program to support acceptance of the vitrified waste at Yucca Mountain. Significant effort was exerted to develop a white paper to support the ongoing ultrasonic testing program for the high level waste tanks in response to a potential vapor space corrosion issue raised by the Defense Nuclear Facilities Safety Board (DNFSB). He served on the Source Selection Board for the Glass Waste Storage Building project.

He transitioned to providing QA oversight for the DOE direct contracted Glass Waste Storage Building. This included development of the Quality Assurance Program for the DOE staff and review and approval of the contractor's QA plan and procedures. Ongoing oversight was provided of the contractor's procurements, document control, receipt of materials and equipment, installations including welding, control of measuring and test equipment, material storage, control of nonconforming items, corrective actions and quality assurance records. He reviewed and closed out over 200 work packages demonstrating the adequate completion and documentation of construction work. He reviewed and

closed out all documentation associated with procurements to ensure materials procured and received met applicable project specifications. This project was completed on time and successfully turned over to Westinghouse Savannah River Company (WSRC).

He then transitioned to the Salt Waste Processing Facility (SWPF), Design Oversight Manager Team Leader position after the decision to change the Performance Category of the facility necessitated revising the preliminary design. He managed the ongoing DOE design review process to ensure timely review of Parsons' design products and adequate resolution of comments including comments on the revised preliminary design. Significant effort was required during this period to address verbal and ultimately written comments from the DNFSB regarding the modeling to be used to determine soil settlement from an earthquake and its impact on the structural design. Also, a review he conducted of the Parsons QA Program concluded that implementation of ISO 9001 did not meet DOE Order requirements and resulted in the decision to transition to NQA-1 going into final design.

Technology Program Manager – Department of Energy (DOE)

01/1995-09/2000

Mr. Montgomery held the new position of Technology Program Manager. One aspect of this position was to facilitate the transfer of SRS technologies to stimulate commercial industry and maintain the core competencies of the Savannah River Technology Center (SRTC) (now Savannah River National Lab). The licensing of patents proved to be difficult and found minimal success. However, developing Work for Others proved successful in acquiring work for SRTC. An agreement for over \$30 million was signed to provide technical support for the Hanford Tank Wastes Remediation System (now the Waste Treatment Facility). Other agreements were reached with the Nuclear Regulatory Commission, Environmental Protection Agency, US Army Industrial Operations Command and the Federal Bureau of Investigation. From a very small base, SRTC work for others reached 20% of their funding. He reviewed and provided a recommendation to the SRS Site Manager for the agreement with Aiken County to construct laboratory facilities at the Savannah Research Campus to accommodate labs in D-Area that were in significant disrepair. Also, during this time he was the DOE Project Manager of a project which developed and demonstrated a Hydrogen powered bus in Augusta, GA. This bus utilized a metal hydride storage system similar to that used for storing tritium in the Replacement Tritium Facility (RTF).

Project Manager – Department of Energy (DOE)

06/1990-12/1995

He was responsible as Project Manager for the Plantwide Fire Protection Project, a Major Systems Acquisition established to correct fire protection deficiencies at the SRS. Phases I and II had a Total Estimated Cost of \$420 million, with additional phases potentially taking the cost to over \$1 billion. A Core Program of high priority was identified and in Feb. 1991, the Undersecretary of Energy approved nine Key Decisions (now called Critical Decisions). In order to get the project scope under control, he championed and served as Vice Chairman of a joint DOE/WSRC Project Review Board to define the SRS Fire Protection Capital Upgrade Program. He lead the effort to develop a back-fit policy emphasizing safety improvement and cost/benefit analysis and was applied to all facilities resulting in 115 facilities being identified for potential upgrade. This methodology was approved by the Undersecretary of Energy. Additionally, subprojects were established to allow work to proceed on incremental scopes of work. This provided the project flexibility to respond effectively to mission changes. Implementation of the review board methodology resulted in cost avoidance of at least \$300 million. Approximately 40 Key

Decisions were ultimately approved by the Acquisition Executive at three different presentations before the Energy System Acquisition Advisory Board. A Baseline Change Proposal was approved in late 1995 reducing the Total Estimated Cost from \$420 million to \$120 million. It is noted that this project was ultimately completed within the \$120 million estimate.

Project Engineer – Department of Energy (DOE)

02/1989-06/1990

Mr. Montgomery served as Project Engineer for the DOE on the construction of the Replacement Tritium Facility. Construction inspections were made several times per week with an emphasis on safety, productivity, and construction quality.

Civil Engineer – U.S. Army Corps of Engineers (USACE)

09/1985-02/1989

He worked as a Civil Engineer with the U.S. Army Corps of Engineers (USACE) at the SRS. Responsibilities included design and construction for projects assigned to the Corps of Engineers by the Department of Energy. He provided direct construction contract management on projects including the expansion of the 315-M Warehouse, Equipment Storage and Health Protection Facility in F-Area, water wells at the barricades, and the Regulatory Vehicle Maintenance Building in A-Area.

Environmental Engineer – U.S. Army Corps of Engineers (USACE)

09/1982-09/1985

As an Environmental Engineer with the USACE in Frankfurt, Germany, he was responsible for both reviewing and performing the civil/environmental portions (water supply, sewage collection and treatment, storm drainage, and site layout) of projects, primarily in Germany, but also in Belgium, the Netherlands and Turkey. Projects included design for a missile base in Germany, utilities for a dining facility in Turkey, review of all utilities for a new Air Base in the Netherlands, and a detailed review of a malfunctioning treatment plant at Incirlik Air Base in Turkey.

Project Engineer – Environmental Protection Agency (EPA), Region IV, Atlanta, GA

07/1979-09/1982

He was responsible as Project Engineer for the technical and administrative review of facility plans, design, and construction of municipal wastewater treatment facilities as part of the Construction Grants Program. His responsibility included municipalities in the southern half of Alabama with over 100 projects in varying stages of planning, design, and construction. Prior to leaving this position, he was a primary participant in the training of Alabama state agency personnel to whom this program was delegated.

U.S. Army Corps of Engineers (USACE), New Orleans District

06/1978-07/1979

Completed one year training program with rotating assignments in the organizational elements of the USACE New Orleans District including Planning, Engineering, Construction and Operations providing engineering support for the District's civil works projects including dredging, levee design and construction. Typical tasks included researching and compiling information, field reconnaissance and reporting, and preparing drawings and design computations.

EDUCATION

MBA, University of South Carolina, 1990

B. S. Civil Engineering, University of North Carolina-Charlotte, 1978

CERTIFICATIONS & PROFESSIONAL ACCOMPLISHMENTS

Professional Engineer License, Minnesota (Valid thru 6/30/2016)

Member NQA-1 Subcommittee on Engineering and Procurement

DOE Technical Qualification Program: Civil/Structural and Quality Assurance

SECURITY CLEARANCE

Holds DOE "Q" security clearance