

LONGENECKER and ASSOCIATES

EXPERIENCE SUMMARIES FOR KEY PERSONNEL

Caroline W. Brun

EXPERIENCE SUMMARY:

Ms. Brun is a highly disciplined engineer with over 27 years of engineering experience. She has 24 years Savannah River Site (SRS) experience working with the Department of Energy and the National Nuclear Security Administration, with demonstrated performance for strategic thinking and problem solving using the Systems Engineering process. She has established herself as a self-motivated, organized and highly skilled in producing numerous quality products on time and within budget for her customers. Ms. Brun is experienced in the application of commercial engineering principles and practices to determine requirement-based solutions, and has applied this methodology when working with both nuclear and chemical process facilities. Her experience includes the planning, development, execution, and documentation of each phase of a facility's life cycle; conceptual and final design, construction, operation, surveillance and maintenance, deactivation, and finally decommissioning.

DETAILED EXPERIENCE:

Ms. Brun is currently mentoring Bias Enterprises Inc. In this role, Ms. Brun is teaming with this A-8 Engineering Firm to provide guidance in the development and preparation of bid proposals for government technical support contracts.

Prior to this, Ms. Brun was a Principal Engineer for the Westinghouse Savannah River Company in the Deactivation and Decommissioning (D&D) Program. Working with CH2M HILL Westinghouse Savannah River Group, Inc., Ms. Brun provided lead technical expertise and cost effective solutions for complex and unique issues that arise during a facility's transition from operation to deactivation, while assuring compliance with Department of Energy Orders, state and federal regulations, nation consensus standards and Savannah River policies and programs. She was the lead engineer responsible for the project planning, characterization, and preparation for demolition of numerous radioactive and chemical contaminated M-Area and P-Area facilities at SRS. Ms. Brun documented for regulators' review and concurrence the proposed and "as-left" configuration of the facilities. Document preparation included, Project Execution Plans, Occupational Safety and Health Administration engineering and interference surveys, Facility End-Point and Decommissioning Final Reports, Material Control and Accountability Summary Reports, Asset Management and Identification assessments, Engineering Evaluation/Cost Analysis Reports, Criticality Safety Analysis as well as structural reviews and calculations specific to more complicated facilities.

Ms. Brun developed surveillance and maintenance programs for the Savannah River Site Reactor Areas and provided senior management with recommendations to significantly reduce overall area maintenance costs for nuclear facilities transitioning from the operational to deactivation life cycle phase. Her systematic technical evaluation process for comparing activities against requirements, and then identifying potential improvements to cost and schedule performance, reduced or eliminated efforts expended on non-value added activities and provided for reallocation of resources to support other site needs. This methodology and deactivation strategy was presented at the 1999 Waste Management Conference.

Ms. Bruns was appointed the Modification Manager for the D&D Program after the site Facility Evaluation Board determined that the existing division engineering and facility modification controls were inadequate. Ms. Bruns developed strategies, which included root cause evaluation, and correction action schedule to address the Board's concerns. After implementation, assurance of program compliance and continuous improvement thorough self-assessment evaluations were developed.

Ms. Bruns functioned as Systems Engineering Lead with the site Tritium missions interfacing with both site organizations as well as the National Nuclear Safety Administration personnel. In this capability she applied proven disciplined approaches to problem solving clearly defining the mission or problem, analyzing a system's or process's functions and requirements, identifying and managing risk, establishing bases for informed decision making, and verifying that products and services meet customer needs. She was responsible for the development and issuance of System Engineering core products that included Problem and Mission Analysis; Functions and Requirements Analysis; Interface Management; Validation and Verification; Decision/Alternative Analysis; Value Engineering; Risk and Opportunity Management and Analysis, integration and execution of systems engineering in support of site programs and initiatives, and DOE Complex tasks. Several key site missions that Ms. Bruns participated in included Tritium Extraction Facility, Tritium Replacement Function Tester, Cleaning and Loading Modification, Pit Disassembly and Conversion Facility, Modern Pit Facility.

In addition to providing engineering technical support during construction, Ms. Bruns functioned as the Operational Readiness Review (ORR) Operations Manager during the initial start-up of both the Saltstone (Z-Area) and Defense Waste Processing Facilities (S-Area) at the Savannah River Site for the DuPont and Westinghouse Savannah River Companies. In this capacity, Ms. Bruns lead a team in the development and issuance of operational procedures to ensure that the facilities were ready for safe operation with minimal impact to startup activities through strategic planning and proper integration of ORR activities with the overall project schedule.

Through-out her years at the Savannah River Site, Ms. Bruns has been requested to participate in the preparation of information and support packages for various technology exchange proposals from EM-50, DOE-HQ as well as from other DOE sites. Often there is a very tight schedule to respond to requests, while a large amount of information must be reviewed, evaluated, discussed, and document to adequately address the request. She was a contributing Member of the Committees that defined the company's strategy and policies to standardized site protocols that included Engineering, Procurement, Configuration Management, Deactivation and Decommissioning, and Asbestos Management programs. Her contributions to the Conduct of Engineering Manual was recognized and awarded the corporate Westinghouse Signature Award.

Ms. Bruns has also worked with CB&I in both design engineering, manufacturing, and field construction of elevated water storage tanks, aboveground tanks for storage of petroleum and refined products, nuclear containment vessels and other steel plate structures.

EDUCATION:

University of Delaware – Bachelor of Civil Engineering