

## **Lawrence (Larry) Ludwigsen**

### **Independent Consultant & Client Representative - Energy Industry**

Larry graduated from Southeastern Louisiana University with his Bachelor of Science Degree in Industrial Technology - Magna Cum Laude, with a triple concentration of Supervision, Automated Systems and Design Drafting.

Larry is currently an Independent Consultant to the Energy Industry providing Client Representation, Project Construction Coordination & Management, and Inspection Services to various Clients in Oil & Gas Industry. He oversees construction, repair and inspection of Pipelines, Pipeline Facilities and Process & Production Facilities onshore & offshore and has strong industry knowledge of project deliverables, Job Data Books, procurement of extensive permits, materials/labor, and strategic planning of project due dates delivering project cost containment solutions.

Prior to becoming an Independent Consultant in the Fall of 2017, Larry was with Project Consulting Service, Inc. (PCS) from May 2013 to Sept 2017. His primary function with PCS was Project Manager in the Traceability and Records Management (TRM) division. TRM was formerly known as C.A.T.S.® (Construction Automated Tracking System). PCS TRM group provides a proprietary material and construction traceability system via C.A.T.S.® and Epilogue® that utilizes electronic data capture to drive the creation of a detailed and searchable database comprising project documents, drawings, and reports. During his time with PCS, he also developed and managed a Permitting Review and QC Process and Procedure along with a Permit Tracking System for a major 700+ mile Interstate Natural Gas Pipeline System development project. Other projects included Project Manage, development, implementation and management of document collection and management system for Client Pipeline Companies including a 210-mile, Gulf Coast NGL Pipeline System and a 1270-mile pipeline system conversion and redirection which included the Traceability and Records Management for multiple retrofitted Pipeline Facilities and several “new construction” Pumping and Metering Station facilities for Ethan NGLs service and transportation.

He has over 35 years of experience in Oil and Gas Industry construction with the majority Offshore Pipeline related. His onshore experience includes Pipelines, Pipeline Facilities, Fabrication Shops, Chemical Plant and Refineries. His experience includes Construction, Inspection, Documentation, Traceability and Records management for Compliance with Federal and State regulatory agencies, permitting, welding and fabrication, installation, pressure testing and pre-commissioning of pipelines, process facilities and piping. He has extensive involvement in all phases of pipeline installation and burial from onshore HDDs to 3000' plus water depths as well as offshore structure fabrication and installation. Extensive involvement with diving related operations and ROV operations for installation of offshore pipelines, tie-ins, subsea assemblies, and risers as a fabricator and later as a Client Inspector. He also functioned as Senior Inspector and Project Field Coordinator for a major offshore pipeline abandonment and retrieval project in environmentally sensitive areas and offshore platform salvage and removals. He is knowledgeable in the use and interpretation of contract documents, codes, standards, specifications, and drawings related to the industry. He started as a welder for a diverse group of contractors (including McDermott) and continued down his development path subsequently becoming an AWS-CWI and inspected on pipeline, oil and gas facilities and diving operations for multiple inspection firms until deciding to return to university and completing his degree.

Larry is a father of three children and enjoys family, football, hunting, cooking, motorcycling and the beach. He resides in Covington, Louisiana. He is a member of the American Welding Society and NSCS.