

ECS

ENVIRONMENTAL SOLUTIONS



STATEMENT OF QUALIFICATIONS

CORPORATE OVERVIEW

ECS has over 20 years of experience in the design and manufacturing of Pollution Control Systems, process vessels and accessories with installations all over North America. ECS sets itself apart from other odor control companies by providing a complete system – from source to solution. Sales, design, project management, manufacturing and inventory items are located together in our 100,000 ft.² facility in central Texas. ECS Environmental Solutions and Engineered Composite Systems are divisions of TexGlass Industries, a family owned and operated company since 1997.

ECS operates out of a 96,000 ft.² facility located in Belton, TX. In this one location reside sales, manufacturing, engineering, product development, project management and service operations. This seamless approach to business allows us to translate customer needs directly into customer solutions.

A computerized helical tank winder produces tanks from 12” up to 14’ in diameter in up to 40’ lengths. Two custom-designed dual-stage pipe / duct winders wind pipe from 2” up to 84” in diameter in up to 48’ lengths. Four modern chopper stations are used for manufacturing large, complex parts. Other manufacturing accessories on hand for custom production are: duct and tank mandrels from 2” to 72” in diameter, sweep elbow tooling from 2” up to 72” in diameter, a 20-ton rough terrain yard-crane and four sets of 5-ton bridge cranes. Five vacuum infusion stations operate to further increase production flexibility. A 5’ x 10’ computerized CNC station with 18” of Z axis allows for extreme efficiency and precision in tooling smaller parts. Increased efficiency and innovative production practices give ECS the ability to offer high quality products with short lead times and competitive prices.

Quality is a hallmark of the ECS manufacturing cycle with a well-established Quality Assurance program. In addition, all systems undergo a detailed hydraulic and electrical function test prior to shipment. High standards of quality are maintained by documented and thorough inspection procedures for critical purchased components such as FRP vessels and electrical control components, as well as for all machined parts. Systems are carefully assembled and thoroughly tested for up to 24 hours. Overall quality control is the responsibility of the Manufacturing Manager.

Customer Service

ECS has a project management team to assist owners and contractors during system commissioning. ECS project managers participate in engineering and design with a hands-on understanding of the nuances of the manufacturing process. This facilitates the production of real equipment from the imagined. ECS’ service capability far exceeds the minimum requirement of industry standards and customer expectations.

Engineering

ECS process engineering group provides the practical expertise for designing and installing treatment systems. The process engineering group becomes involved at the design test stage and follows a given project through process specification, materials selection, process control, quality control testing and installation. Individual responsibility is the key to ensuring project congruence and high quality.

ECS' product engineering group includes electrical and mechanical engineering personnel as well as mechanical and electrical CAD designers. This group has many years of experience in designing and building odor control systems.

Project Management

Once a contract has been awarded to ECS, the point of contact is transferred from the responsibility of the sales representative to the Project Manager. He works with the customer's representative to ensure that all of the contract requirements are satisfied in a timely and effective manner. This effort includes issue of drawings, coordinating drawings approval with the owner's representative, issuing Operating and Maintenance manuals, and coordinating ECS' training of the owner's operation and maintenance personnel as well as technical supervision during the commissioning of the odor control system.

Research and Development

ECS is continually working on new and improved ways of treating odorous compounds. Radial flow carbon adsorption for reduced footprint and fan horsepower along with new synthetic biological filter media for longer filter media life are only a couple of new processes that ECS will bring to the market place to help improve the efficiency of odor control. ECS currently has several patent pending applications that would lead to great advancements in the area of odor control technologies.

Continuing projects for ECS R&D personnel include extending the application of biological treatment through the development of innovative processes, improving the commercial application and competitiveness of existing processes and researching areas of new application.

ECS Contact Information

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KEY PERSONNEL

This section outlines the caliber of technical support, engineering and research staff available to support any proposed system and its successful application once installed.

Jeff Jones

President

Jeff Jones has overall responsibility for the operation of the Company. He is responsible for the financial performance of the Company. He has functional responsibility for research and development, process and product engineering, manufacturing and sales and marketing. Jeff Jones has spent the last 20 years in the design and manufacturing of fiberglass vessels and ductwork/damper systems. In 1990 Jeff began working his way from the ground-up at a family business called Belco Manufacturing. Delivery, winder operation, finishing, plant manager and ended as the municipal sales manager before starting ECS.

Steve Jones

Engineering Manager

After receiving his degree in chemical engineering from the University of Texas, Steve went to work for Continental Belton, a family-owned manufacturer of fiberglass agriculture tanks. In 1983 Steve founded Belco Manufacturing which specialized in critical service fiberglass chemical storage tanks. After twenty years Steve sold Belco to Denali. Shortly after his son, Jeff Jones started ECS Steve joined the company as principal engineer and consultant.

Carrie Jones

Sales / Sales Administrator

Carrie is responsible for all of ECS' sales representatives and bids. She also handles our sales for our ductwork, damper and chemical storage tanks along with marketing media and trade shows.

Blake Leinart

Sales / Director of Project Management

Blake is responsible for new customer acquisition and market development as well as managing the project management team. As the primary contact for new and established customers, Blake works to maximize ECS's profitability through excellent customer service and strong company values. Blake is responsible for ensuring that the completed project meets the customer's needs in the most cost efficient way using his years of technical experience including logic and control systems.

Blake graduated from the University of Texas at Austin in 2000 with a BBA in Management Information Systems. He has eleven years experience as a systems administrator and five years experience as a project manager.

Alicia White

Project Management

Alicia has primary responsibility for all aspects of project management including customer communication and management of project timelines. Alicia also is responsible for practical design issues such as: systems integration, mechanical, electrical, and instrumentation coordination, including the computer-aided design function and CFD analysis.

Ms. White has a wealth of practical mechanical knowledge as well as extensive experience in system controls and instrumentation. With over 14 years of experience in management positions with a strong focus on customer service, Ms. White excels at maintaining constant communication with the customer / contractor.

Brian Sanderford

Project Management

Brian has primary responsibility for all aspects of projects under his management including customer communication and management of project timelines.

Brian has a wealth of practical mechanical knowledge as well as extensive experience in product quality control roles. With over 7 years of experience in management positions with a strong focus on customer service.

Thomas Holescher

Project Management

Thomas has primary responsibility for all aspects of projects under his management including customer communication and management of project timelines.

Thomas has a Bachelor of Science, Industrial and Systems Engineering from Texas A&M University.

Rick Ramirez

Plant Manager

Rick manages the efficiency of FRP production, metal working, shipping and inventory management. Rick works closely with engineering, sales, marketing and support to ensure revenue and customer satisfaction goals are met.

Michael Jones

Quality Control

Michael manages the efficiency of FRP production, metal working, shipping and inventory management. Michael works closely with engineering, sales, marketing and support to ensure revenue and customer satisfaction goals are met.

Michael holds a BBA in Agri-Business Management from Tarleton State University and has worked in the Composites Industry for the last 13 years.

Troy Morgan

Field Services Manger

Troy will focus on being in the field mainly dealing with start-ups and field training for the ECS Systems. Troy has over 13 years experience in military and civilian operations and support. His strength is leadership, system administration, trouble-shooting and problem-solving, operations and utility and diagnostic software.

Troy has completed several MR5 Advanced and Administrative Courses with technology driven infrastructures.

Jamie Sanderford

Electrical Design / Field Services

Jamie configures all of the electrical components of the system to be efficient and cost effective. Ease of operation and maintenance are key considerations in the process. He performs start-up and field training on systems with intricate electrical systems.

Jamie is a master electrician with over 30 years of experience in the industry.

Tammy Brown

Computer-aided Drafting

Tammy produces all CAD drawing for submittals and production. While Tammy's primary responsibility is to create accurate drawings per spec provided by the project manager, she also maintains organization of the historical changes in the drawings throughout the life cycle of the project.

Tammy has 27 years of drafting experience, 20 years drafting in AutoCAD. She has been with ECS for over 4 years.

Dona Schexnayder

Office Manager

Dona performs key administrative duties such as purchasing, accounts receivable and payable. Dona systematically organizes all documentation of jobs from purchase orders through freight and on to invoicing and receipt of payments. She also is responsible for the financial reporting of the company.

Dona has over 30 years of administrative experience including a position with a freight logistics company. She has been with ECS for the past 7 years.

PRODUCT SUMMARY

What sets ECS apart from other manufacturers is flexibility and specialization in equipment for corrosive applications. Where other companies focus much of their resources on inexpensive, commodity tanks, the main focus of ECS has been critical service applications.

V-Series Deep Bed Carbon Adsorbers – The V1 is a low cost, highly effective system for removing H₂S and other compounds from municipal wastewater applications. These systems can utilize a wide variety of adsorbent media. ECS carbon systems provide reliable performance; low installation costs and requires little to no maintenance under normal operation conditions.

VX Radial Flow Carbon System – The VX radial flow is an efficient, highly effective system for removing H₂S and other compounds from municipal wastewater applications. These systems can utilize a wide variety of adsorbent media for specific treatment needs with lower capital and operating cost than Deep Bed or Up-Flow Systems all, with a small footprint and low pressure drop requiring lower horsepower blowers.

H-Series Carbon Adsorber – The H-Series is a highly effective system for removing H₂S and other compounds from municipal wastewater applications. These systems can utilize a wide variety of adsorbent media. As with all ECS activated carbon systems the H-Series provides advanced air distribution, low installation cost and is virtually maintenance free once in operation.

X-Pac Chemical Scrubbers by ECS – ECS packed tower wet scrubber systems can handle very large air volumes – up to 70,000 CFM. ECS packed towers feature an external extended sump reducing overall height and allowing for the use of low-maintenance. The X-Pac is a reliable system with a proven track record supported by years of operational experience controlling hydrogen sulfide and organic odors from wastewater treatment operations.

Biological Systems – ECS offers a full line of biological odor control systems to control H₂S and reduced sulfur compounds. ECS BioPac towers are designed to remove 99% H₂S and can be fitting with a neutral PH stage to facilitate treatment of organic compounds. BioPure is an engineered media designed to replace conventional wood chips. BioPure does not require nutrient feed and is over twice as efficient as wood chips. The ECS Duo is a combination biological system that utilizes BioSorb and BioPure technology to offer a conservative, full-proof approach to total odor removal

Pre-Filter – FRP housing with stainless steel, polypropylene mesh pads or Noryl blades. Units have access doors, drains, and in-place wash systems.

Chemical Storage Tanks – ECS FRP Chemical Storage Tanks are up to 168” in diameter and designed to meet virtually every storage requirement. Built with exterior coatings with UV inhibitors, ECS tanks are manufactured to national standards including ASTM D3299, 4097, PS 15069, SPI’s Quality Assurance Report and ASME RTP-1. Customer configurations include square and rectangular shapes with a full range of accessories including: ladders, platforms,

handrails, sight gauges and level instrumentation. High-quality corrosion liners with specialized curing systems are added for extreme service conditions.

Class 1 Flame Resistant Ductwork – ECS is one of the largest suppliers in North America of ductwork and fittings for the conveyance of corrosive gas. ECS duct is built with a standard 100-mil resin-rich corrosion barrier on all surfaces exposed to corrosive gas. Transitions, fittings and custom fabrications meet each customer's specific requirement and are available in 2" through 144" diameters. Systems are shop fabricated to minimize field work with static grounding systems for explosive atmospheres.

Dampers– ECS has been involved in the design and manufacture of high-quality FRP Dampers for over 15 years. We are the only supplier with a complete product line and unmatched quality. Materials used to manufacture the body and component match the corresponding ductwork system. Housings are sized to match ECS ductwork as well as customer or other special equipment such as inlet boxes, fans and flexible connectors. Custom configurations are available such as: square / rectangle and non-standard lengths and flange dimensions. Components are selected to meet customer requirements from shaft and gasket material to operators. ECS dampers are licensed to bear the AMCA seal.

Complete product offering includes:

- inlet vane(vortex)
- parallel blade
- opposed blade
- back-draft
- pressure-relief
- volume control
- isolation
- bubble-tight shut-off operation

Stacks – Supported and free-standing FRP stacks are built up to 100' in length.

Covers / Hoods – Cover and hood systems are manufactured out of corrosion resistant fiberglass to contain and convey odorous air and corrosive gas.

Enclosures – 100% Composite sound enclosures reduce noise pollution from fans and other such equipment. ECS Enclosures are corrosion-resistant and weather-proof for pump skids or electronic applications. All enclosures, standard or sound, are available with a host of options including exhaust fans, lights and electrical components.

Engineering Companies that have accepted ECS for system supply:

Black & Veatch
Brown & Caldwell
EarthTech
CH2M Hill
Carollo Engineers
Metcalf & Eddy
TetraTech/KCM
Hazen and Sawyer
CDM
GG&J
Applied Resource Engineering
Raytheon
Valentine Environmental Engineers
Stanley Consultants
Donohue Associates
Howard R Green Company
Blasland Bouck & Lee
Stantec
Malcolm Pirnie
Greeley &
Hansen