



STATEMENT OF QUALIFICATIONS

Industrial Process



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SUMMARY

Adams & Christensen Engineering, Inc. (**ACEng**) is an engineering firm specializing evaluation and design of industrial and manufacturing-related infrastructure for industries. **ACEng** can provide complete system evaluation and design including system/technology evaluation, hazardous area classification, equipment and component specifications and selection, piping & instrumentation diagrams (P&IDs) piping design, electrical design, instrumentation and control design, control panel design, operating descriptions, and complete design packages for field construction or pre-fabricated skid manufacturing. Systems designed by **ACEng** engineers have been pre-manufactured and/or field constructed for the following industries.

- Food & Beverage
- Renewable Energy – Landfill Gas
- Renewable Energy – Food Waste
- Centralized Waste Treatment (CWT) Facilities
- Steel Producing
- Power Generation
- Landfill
- Dairy
- Engineering Firms

Our experience includes contaminate removal and heating/cooling of process water for manufacturing and boiler feed, mass and water balance studies to better understand water usage and requirements, mechanical and piping upgrades, electrical and controls & instrumentation upgrades, HVAC design, fuel gas regulating stations, and ammonia handling systems for emissions control.

ACEng offers evaluation and consulting services along with process, mechanical, civil, structural, controls & instrumentation engineering and design services for field erected systems or modular skid-mounted components/systems.

Our Principals have Professional Engineering Licenses in 30 states, Certificates of Authorization in 21 states, and are an ISNet World registered and compliant contractor.

SELECT PROJECT EXPERIENCE

P&ID Development for Cooling Water System

Steel Mill - Ghent, Kentucky

Conducted field inspection and data gathering of a non-contact cooling water system for a steel mill and developed current P&IDs of the system.

Hydraulic Model Development for Cooling Water System

Steel Mill - Ghent, Kentucky

Developed a P&ID and a Hydraulic Model of the mills Direct Cooling Water (DCW), Indirect Cooling Water (ICW) and Make-Up Water systems. The model was developed in Pipe-Flo Professional and utilized an active Microsoft Excel interface to allow the owner to import production parameters into the model and receive Excel-based system performance reports for pumping systems, cooling tower performance, and make-up water requirements.

Water Filter Modification Design

General Mills – Belvidere, Illinois

Completed piping design for the addition of a second water filter within an existing facility. We developed a 3-D model of the room's existing geometry and contents and used the model to work with the client to evaluate multiple equipment locations and piping routes to best meet their construction and operational needs. The model was used to develop construction drawings.

Frack Water Treatment System

Confidential Client – North Dakota

Provided design assistance to Wenck Associates for design of a wastewater treatment system to treat Stage 1 and Stage 3 drilling fluids from fracking operations. Specific tasks included reviewing and finalizing P&IDs, developing project specifications, selecting pumps and instruments, and developing piping plans.

Prefabricated Skid Structural Design

OGI Process Equipment, Multiple Equipment Installations, USA

- Completed equipment foundation reaction calculations and anchor bolt selection for water bath heater. Marshalltown, Iowa.
- Foundation design for dust collector tower and water storage tank. Sand Springs, Oklahoma.
- Completed equipment foundation reaction calculations and anchor bolt selection for water bath heater. Yuma, Arizona.
- Structural evaluation of exhaust stack connections on a water bath heaters installed at the following locations.
 - Libertyville, Illinois.
 - Defiance, Ohio.
 - Jena, Louisiana.
 - Sandyville, West Virginia.
 - Sandyville, West Virginia (different project).
 - Strasburg, Virginia.
 - Mansfield, Ohio.
 - Boldman, Kentucky.
 - Calumet County, Wisconsin.
 - Artemas, Pennsylvania.
 - Mount Olive, Kentucky.
 - Millersport Gill, Ohio.

- Lawrence, Ohio.
- Adell, Wisconsin.
- Janesville, Wisconsin.
- Weyauwega, Wisconsin.
- Channahon, Illinois.
- Jefferson Davis Parish, Louisiana.
- Anergard, North Dakota

**Ammonia Pump Skid, Truck Transfer Skid, Storage Tanks and Vaporizer and Injections Skids
Aether DBS - Dairyland Power Cooperative, JP Madgett Station Unit 6, Alma, Wisconsin**

Designed and provided manufacturing support of an aqueous truck unloading skid, two storage tanks, pump skid, and ammonia vaporization and flow control skid, a dilution air heater and ammonia injection skid, and two steam condensate recovery skids.

**Ammonia Pump Skid, Truck Transfer Skid, and Storage Tanks
Aether DBS - University of Minnesota, Minnesota**

Designed and provided manufacturing support of an aqueous truck unloading skid, two storage tanks, pump skid, and ammonia vaporization and flow control skid, a dilution air heater and ammonia injection skid, and two steam condensate recovery skids.

**Ammonia Flow Control and Vaporization Skid
Aether DBS – Wisconsin Public Service Corporation, Rothschild, Wisconsin**

Designed and provided manufacturing support of an aqueous truck unloading skid, two storage tanks, pump skid, and ammonia vaporization and flow control skid, a dilution air heater and ammonia injection skid, and two steam condensate recovery skids.

**Ammonia Flow Control Skid
Aether DBS – Scattergood Generating Station, Playa Del Rey, California**

Provided technical review of manufacturing drawings and bill of materials for an ammonia flow control and vaporization skid.

**Ammonia Injection Skids
Aether DBS - Hoosier Energy, Merom, Indiana**

Managed design and provided manufacturing support of two anhydrous ammonia injection skids for air emissions treatment at a coal-fired power plant.

**Ammonia Injection Skids
Aether DBS - TVA, Gallatin, Tennessee**

Managed design and provided manufacturing support of four anhydrous ammonia injection skids for air emissions treatment at a coal-fired power plant.

**Ammonia Dilution Air Blower, Vaporizer, and Injections Skids
Aether DBS – Westar SCR, St. Mary's, Kansas**

Provided design and manufacturing support of an anhydrous ammonia vaporizer and injection skid and a dilution air blower skid for a power plant.

**Ammonia Pump Skid, Truck Transfer Skid, and Vaporizer and Injections Skids
Aether DBS - West Palm Beach, Florida**

Provided design and manufacturing support of four anhydrous truck unloading skids, pump skids, and vaporizer/injection skids for a solid waste processing facility.

**Odorous Air Evaluation and Improvement Actions Recommendation
Environmental Remedies – Atlanta, Georgia**

Developed model of an odorous air collections system from various tanks through scrubber and to blower system for a private wastewater treatment facility. Utilized the model to balance existing system and identify system modifications to improve system performance.

Natural Gas Filter Skid**Aether DBS – Bethlehem Energy Center, New York**

ACEng Engineers designed a 950 PSIG MAOP natural gas filter skid per ASME B31.8 and provided technical support during manufacturing and testing.

Natural Gas Metering and Regulating Skids**Aether DBS – Bethlehem Energy Center, New York**

ACEng Engineers designed an enclosed natural gas metering skid and a natural gas regulating skid, both per ASME B31.8. ACEng Engineers provided technical support during manufacturing and testing.

Natural Gas Pig Receiver and Regulating Skids**Aether DBS – Xcel Energy, Colorado**

ACEng Engineers designed and 1,020 PSIG MAOP pig receiver skid and regulating skids. The pig receiver skid was designed to ASME B31.8 and the regulating skid was designed per ASME B31.1.

Jubail Polysilicon Project**Aether DBS – Jubail Polysilicon Project, Jubail, Saudi Arabia**

ACEng Engineers designed foundations for LPG truck unloading stations, pumping systems, LPG storage tanks, vaporizers, and pipe supports.

Natural Gas Refrigerant-Type Dehumidification System**Graham Equipment – Graham, Texas**

Developed a skid-mounted natural gas dehumidification product for equipment manufacturer/packager. The base product included inlet/outlet gas-to-gas heat exchanger (economizer), gas chiller gas-to-liquid heat exchanger, discharge coalescing filter, refrigerant system, and control system. Options included methanol-based hydrate formation inhibitor system, ambient heat exchanger, and condensate management system.

Well Head Gas Compression System**Graham Equipment – Graham, Texas**

Designed a single-stage, sliding vane (Ro-Flo) based well head compression system for equipment/packager. The system compressed 250 mcf/d wet well head gas from 0 psig to 50 psig.