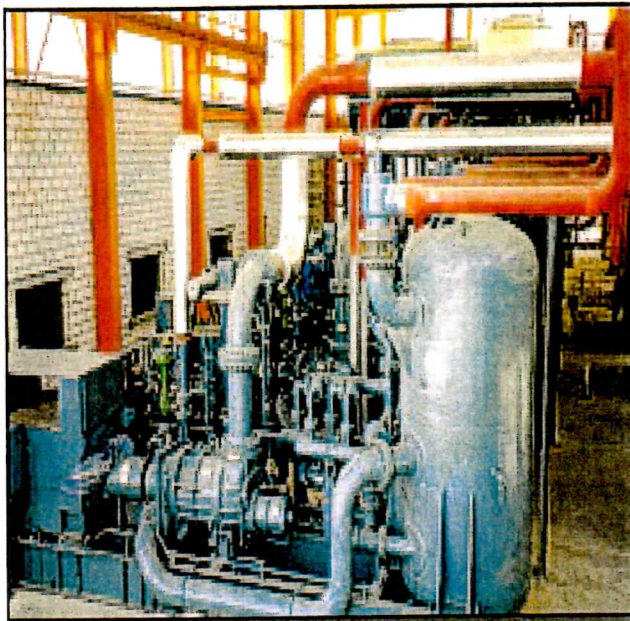


Facility and Utility Projects



- ⇒ Boiler Systems
- ⇒ HVAC Systems
- ⇒ Dust Collection
- ⇒ Fume and Odor Control
- ⇒ Refrigeration
- ⇒ Cooling and Chilled Water Systems
- ⇒ Hot Water and Steam Systems
- ⇒ General Utilities (air, N₂, etc.)
- ⇒ New Facility Design
- ⇒ Additions to Existing Facility
- ⇒ Code Review/Building Permits
- ⇒ Structural Integrity
- ⇒ Pipe Supports
- ⇒ Foundations
- ⇒ Site Development (OSHA, EPA Compliance)

Formica Corporation - Cincinnati, OH

- Engineering and Design to analyze an existing dust collection system to determine causes of deficient operation and to recommend and design improvements for the system.
- Engineering and Design for waste incineration environmental compliance, steam flow measurement and boiler evaluation/replacement studies, and pressure vessel inspection/repair projects for a major lamination plant.
- Performance of a Title V environmental compliance study for a coal-fired boiler facility.
- Renovation and recommissioning of a 10,000 ton/year sander dust/laminate chip handling and firing system for a coal-fired boiler.
- Evaluation of outdated and inefficient coal-fired boiler facilities in a large lamination plant, and identification and economic evaluation of renovation/replacement options.

Morton International - Cincinnati, OH

- Engineering for the design and construction of an industrial wastewater pH control and monitoring facility. The project included the installation of concrete neutralization sumps, a flow measurement flume, and a building with equipment and instrumentation to control and monitor the pH of the wastewater discharge.

Facility and Utility Projects

Scitex Digital Printing, Inc. - Dayton, OH

- Engineering and Design for the renovation of an ink manufacturing facility. The project included process layout modifications to improve production; complete redesign of ventilation, dust collection, fire protection, electrical and explosion-vent systems to improve safety; and the addition of a process chilled water system. Project included modifications to an existing solvent fume incineration system.

Bayer Corporation - Cincinnati, OH

- Engineering and Design of a 4200-ton capacity central chilled water plant for a campus-style pharmaceutical research facility, including three electrically driven centrifugal chillers, three steam absorption chillers, cooling towers, pumps, and underground steam and chilled water distribution piping.

General Electric - Cincinnati, OH

- Engineering and Design for a project to reconfigure the piping systems of three separate 400-ton capacity chilled water systems that serve a large computer center at a heavy industrial facility. The three systems were re-piped to provide one 1200-ton capacity primary/secondary chilled water system to improve system energy efficiency and provide redundancy of chillers and pumps.

U.S. Army Core of Engineers - Hanover, NH

- Engineering and Design for refrigerations design for a research facility in Hanover, New Hampshire. Designed -45°F brine systems for a facility to study the effects of cyclic freezing and thawing of roadways, airstrips, etc.

U.S. Department of Energy Mound Laboratories - Miamisburg, OH

- Directed the design of HVAC, plumbing and fire protection systems, including the design of room pressurization controls and a bag-in/bag-out exhaust filtration system for air containing radioactive particulate.

Dayton Technologies - Dayton, OH

- Engineered mechanical systems for PVC extrusion facility including: chilled water system, compressed air system, HVAC systems with process waste heat recovery for areas requiring tight humidity control.

Facility and Utility Projects

Lehr Precision - Cincinnati, OH

- Cooling water system and fume control system with fume scrubber for ECM's at an aircraft engine parts facility.
- Engineering and Design of process heating and cooling systems for major expansion of a large electrochemical milling plant.
- Engineering projects involving waste heat recovery/thermal energy storage/power generation/process-integrated total energy systems for the metals industries.

GE Plastics - Mt. Vernon, IN

- Engineered dust collection and fume control. Retrofit production facility and grassroots compounding process for plastics production.
- Engineering and Design for an expansion project at a thermoplastics manufacturing facility. Analyzed utility requirements and developed conceptual design basis for the installation of compressed air, cooling water, deionized water, mill water, steam and steam condensate capacity required for the expansion. Performed detailed building code study to determine conceptual building use group classification and construction type requirements.
- Engineering and Design for a project to consolidate and expand the production capacity of two existing PVC profile extrusion facilities to a single, 299,500 square foot facility. Directed the design of process chilled water and compressed air systems; dust collection systems; HVAC systems for production, compounding, tooling, machining, warehousing, and office areas; plumbing systems and fire protection systems.

Cook Imaging - Bloomington, IN

- Engineering and Design of process piping, instrumentation, and controls for the water-for-injection, pure steam, and water pretreatment systems for a parental pharmaceutical manufacturing facility. The project included the preparation of several phased bid packages to facilitate "fast-track" plant construction.

Van Melle, Inc. - Florence, KY

- Structural steel building with mat foundations for silos, monorail support system, concrete pads and all related support structures.

Pilot Chemical Co. - Middletown, OH

- Structural steel design for trussed pipe bridges, service platforms, ladders, catwalks and pipe support racks.

Facility and Utility Projects

Ralston Foods - Cincinnati, OH

- Site plan for truck dock which included boundary and topographic survey.

Air Products - Cincinnati, OH

- Site survey and topographic survey. Site engineering for pipe bridge across a stream and underground piping to liquid station.

American Hoechst - Newark, N.J.

- Engineering and Design for the installation of a new boilerhouse with two 225 HP gas-fired boilers including feedwater pumps, tank and treatment system at a chemical plant.