

Process & Thermal Systems Experience ¹			
Project	Client	Location	Description
LaGrange Landfill Gas System	City of LaGrange, Georgia	LaGrange, GA	Landfill gas compression and conditioning system to process 600 standard cubic feet per minute of landfill gas at a discharge pressure of 65 psig. System redirected gas that was previously flared to a new utility distribution system for purchase and use by industrial gas utility customers seeking to find a lower cost alternative to natural gas. The system incorporated variable volume gas output and remotely monitored controls.
Interim Sludge Processing and Disposal Facility	Massachusetts Water Resources Authority	Boston, MA	Evaluated operation of pelletizing sludge dryer efficiency to optimize dryer efficiency and pellet transport. Produced a computer model that produced results that correlated very closely with eventual field gathered data.
Peachtree Electric Pumping Station	City of Atlanta	Atlanta, GA	Raw-water pumping system for the 202-mgd pumping station utilizing vertical turbine pumps ranging up to 2,500 horsepower with traveling screens and hydraulically actuated valves. System also included a 22,000 gallon surge tank for prevention of discharge main surge.
Fowler WRF	Forsyth County	Cumming, GA	Managed operation of a membrane bioreactor plant while representing the design-builder. Plant also included an effluent reuse system and land application sprayfield.
BellSouth Above-Ground Fuel Storage Tanks	BellSouth	Misc. Locations in Georgia	Above-ground (vaulted) fuel storage systems for supply of fuel for standby power systems at various BellSouth switching facilities
Central Park Elementary School	Birmingham Public Schools	Birmingham, AL	Designed the tempered water loop and heat exchange system for the water source heat pump system
Chattahoochee & Peachtree Electric Pumping Stations	City of Atlanta	Atlanta, GA	Hydraulic valve-actuation systems for high-service pumping systems
Chattahoochee Finished Water Pump Station Evaluation	City of Atlanta	Atlanta, GA	Evaluated cavitation and surge issues for the high-service pumps at the Chattahoochee Finished Water Pumping Station in Atlanta, Georgia. Produced report with recommendations for improvement.
Chelsea Water Treatment Plant	Beaufort-Jasper Water & Sewer Authority	Beaufort, SC	Above-ground tanks and double-wall contained site distribution piping to supply fuel to multiple generators across the plant site
Hemphill Surge Tank	City of Atlanta	Atlanta, GA	Pump station surge control system on the discharge of the Hemphill Pumping Station high service pumps consisting of 22,000-gallon surge tank and instrumentation system to protect the City's underground potable water mains from excessive surge pressures.
Metal Recycling Facility	Newell Recycling	Doraville, GA	High pressure hydraulic system for actuation of shredder mechanisms and conveyance equipment
RM Clayton WRF Odor Control	City of Atlanta	Atlanta, GA	Caustic and sodium hypochlorite storage and feed system and scrubber recirculation pumping system
South River WRF Odor Control	City of Atlanta	Atlanta, GA	Caustic and sodium hypochlorite storage and feed system and scrubber recirculation pumping system
Town Creek Water Treatment Plant	Macon Water Authority	Macon, GA	20,000-gallon above-ground generator fueling system for supply of fuel to a standby generation facility

Utoy Creek WRF Odor Control	City of Atlanta	Atlanta, GA	Caustic and sodium hypochlorite storage and feed system and scrubber recirculation pumping system
Miscellaneous Projects	Miscellaneous	Multiple Locations throughout the Southeast	Compressed air systems for high-pressure instrument air services, laboratories, valve actuators and industrial plant power tool operation for numerous municipal, industrial and commercial projects
Cogeneration Evaluations (Multiple)	Various Large Commercial and Industrial Customers of Atlanta Gas Light	Multiple Locations throughout Georgia	Conducted alternative energy evaluations based upon comparisons of traditional electric power use versus use of cogeneration for large commercial and industrial electric power consumers.
Interim Sludge Processing and Disposal Facility	Massachusetts Water Resources Authority	Boston, MA	Evaluated particulate and odor control equipment to optimize their efficiencies. Evaluated equipment included cartridge dust collectors, baghouses, cyclones, wet venturi scrubbers, wet electrostatic precipitators, carbon filter beds, regenerative thermal oxidizers, and packed tower scrubbers.
Metal Recycling Facility	Newell Recycling	Doraville, GA	Design of shredder hydraulic and lubrication systems and design of a cooling system for a 6,000 hp motor.
Natural Gas Air Conditioning Evaluations (Multiple)	Various Large Commercial and Industrial Customers of Atlanta Gas Light	Multiple Locations throughout Georgia	Conducted evaluations of natural gas versus electrically driven air conditioning systems to determine cost effectiveness of implementation for institutional, large commercial and industrial end users.
1 - Experience obtained with ESS and prior firms.			