



Stewart  
Engineering  
Services  
Corporation

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## Technical Capabilities

**Electrical Systems-** Comprehensive analysis and design capabilities to include primary power distribution (high voltage), Industrial and commercial low voltage power (600 volt), single or multiple site generation systems including transfer switching and utility paralleling, lighting systems for office and specialized production needs. ARC flash analysis and plan solutions. Ground fault analysis.

**HVAC Systems-** Comprehensive analysis and design capabilities to include chilled water central plant systems (unlimited size), networked site chiller systems, boiler systems, airside analysis for clean rooms, computer rooms, production usage, hazardous and flammable chemical storage, and laboratory hood control systems.

**Automation Systems-** Comprehensive analysis and design capabilities to include assessment of savings opportunities, selection of automation platform, sequence of operations development, and programming of field control devices.

**Facility Computer Modeling-** A facility model provides a computerized method to determine the use of energy by HVAC systems on an hourly basis for a full year.

**Risk Analysis-** Analyze the potential for site utility interruption and develop methods to mitigate the impact.

**Fault Tolerance-** Analyze electrical and mechanical systems for predictable failure scenarios. Develop manual and automated methods to detect and prepare for systems or equipment failure and mitigate failure damage.

**Waste Minimization-** Evaluate existing process waste streams. Reduce process waste through operational, environmental, and control solutions.

**Compressed Air Systems-** Comprehensive analysis and design capabilities to include collecting existing baseline data, air compressor system component evaluation (compressors, dryers, filters), air usage analysis to determine system loads, event analysis, develop proposed system architecture, develop proposed system savings and audit methodology.