

ELECTRICAL INSTRUMENTATION & CONTROLS



Lauren's electrical engineering and design group delivers project excellence from start to finish.

This includes the design of complete control and power systems for various facilities, including:

- Protection and control studies
- Area classification
- Low and medium voltage power systems
- Control systems
- SCADA systems with various PLC and RTU systems
- Arc Flash and ETAP modelling
- Measurement

Our engineers and designers complete drawing packages with support for estimating, design, construction work packages, construction management and commissioning. Their support includes preparing estimates and proposals for upcoming work, preparation of plans, designs, calculations, costs and bills of materials. This is in accordance with established codes, standards, drawings and other specifications. Our team performs ETAP calculations for power systems for arc flash, short circuit, and power load flow calculations; checks drawings and plans for technical completeness; and reviews vendor information for technical information.

SUPPORTING SERVICES

- Primary power service
- MCC and switchgear systems
- Measurement and analyzer design
- Facility lighting
- Actuated valves (electrical, electro-hydraulic, pneumatic and gas over hydraulic)
- Communication systems
- Fire detection systems
- Alarm systems
- Energy analysis
- Emergency electrical power
- Arc flash/load flow studies/short circuit
- Protective relay coordination
- Instrument loop diagrams
- Low and medium voltage VFD system design
- Low and medium voltage power system design
- Flow computer
- SCADA/network systems



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LAUREN
Engineering & Project Delivery