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Nowland Services, PLLC

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**Areas of
Expertise:**

- Electrical power engineering design, review, implementation, analyses
- Power generation and distribution
- Commercial/industrial business to utility electrical interface
- Central power plant design for campuses
- Determine cause and resolve electrical shock hazards
- Find and resolve code and safety issues with better design
- Automation and control systems design, evaluation and implementation
- Instrumentation and control valves
- Custom circuits and electronic design
- Electrical equipment programming, commissioning, and operation
- Electrically hazardous areas classification, design or evaluation
- Wiring methods in hazardous areas
- Design team lead and support
- Code and safety evaluations both pre and post accidents and events
- Boiler conversions to dual fuel
- Heater installations to vaporize flammable gas
- Energy efficiency and management including energy audits
- Renewable energy projects
- Low and medium voltage
- Industrial, commercial and residential settings
- Safety inspections, code investigations, standard practices review and analyses
- Lightning loss evaluation, protection and damages evaluation
- Machine or plant software program loss evaluation and prevention
- Construction, commissioning, startup and training
- Prototype development for research projects
- Forensic and litigation support, and testimony, if needed, at deposition and trial

Industries:

- Cogeneration and trigeneration power plants, simple and combined cycle
- Flammable liquid and gas handling and storage plants, marine terminals, truck load stations, meter and regulator stations, liquid and vapor handling
- Water handling, purification and storage
- Wastewater
- Pump Stations
- Aquaculture, aquariums, hatcheries
- Waste heat to energy plants
- Combustion research and testing facilities
- Commercial/Industrial Business On-Site Power Generation
- Commercial/Industrial Business to Utility Electrical Interface
- Commercial Buildings, Facilities and Campuses