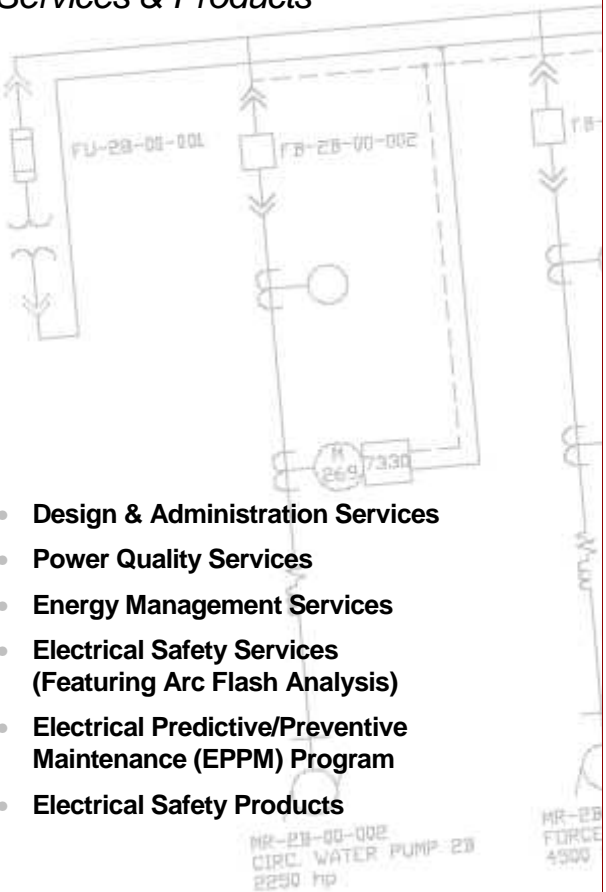


*D.L. Steiner, Inc.*

# Total Electrical Power Solutions

*Services & Products*



- Design & Administration Services
- Power Quality Services
- Energy Management Services
- Electrical Safety Services  
(Featuring Arc Flash Analysis)
- Electrical Predictive/Preventive  
Maintenance (EPPM) Program
- Electrical Safety Products

**DLSteiner**  
Electrical Engineers



# Electrical Systems That Work for You

**N**o matter what business you're in, electricity is at the heart of your operation, running processes, powering equipment, heating buildings, and keeping the lights on. It's the unseen force that makes your company go. For this reason, your electrical system should be the best it possibly can to ensure you get the most from this critical asset.

Since 1989, D.L. Steiner, Inc. has been providing *total electrical power solutions* for clients from a wide range of industries, helping them implement and maintain electrical systems that are well designed, reliable, energy efficient, safe, and environmentally responsible. With our years of field-proven experience, you can count on an electrical system that will work for you, today and as your needs change in the future.

*Let D.L. Steiner assist you with...*

## Design, Power, Energy, and Safety Services

### Engineering and Related Disciplines

#### Power System Design

Complete design services: generation and distribution systems, overhead power lines, substations (indoor, outdoor, utility), motor controls, system retrofits, and emergency systems.

#### Project Administration

Efficient, experienced electrical system planning and supervisory services: feasibility studies, project cost analysis, and project management.

#### CAD Services

Versatile AutoCAD-based drafting services: single-line diagrams, schematics, floor plans, panel layouts, and cable/conduit diagrams; paper-to-digital conversion; DWG to PDF conversion.

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## Power Quality Services

### Power Studies

- *System Surveys*—Evaluate the power system’s capabilities in terms of current and future needs.
- *Line Quality Studies*—Identify the sources of system power failure.
- *Power Profiling*—Quantify electric consumption rates and recommend alternatives for achieving more efficiency.
- *Grounding Surveys and Tests*—Assess the system’s earth ground, bonding method, and equipment grounding.

### Power Metering

Provide real-time system monitoring for improved operations, reduced electric consumption, better diagnostics, faster responses to alarms, and accurate usage allocations (in billing situations).

### Disturbance and Harmonic Analysis

Locate the causes of momentary system outages and harmonic distortions in order to prevent or minimize their long-term damaging effects on the power system.

### Power Factor Analysis, Power Factor Correction and Filtering

Reduce the system’s nonproductive power draw, increasing efficiency and decreasing utility costs (this service includes providing turnkey correction and filtering solutions).

### Load Studies

- *Load Surveys*—Profile the system’s load characteristics and requirements over a span of time (several minutes to several weeks).
- *Load Flow Analysis*—Determine if the system has adequate capacity to support present loads, as well as anticipated future loads.

### Reliability Analysis

Assess the reliability and availability of the power system and recommend design, operation, and maintenance improvements to increase its reliability and availability.

## Energy Management Services

### Utility Coordination and Usage

Ensure successful installation or modification of electrical service and other utilities and accurately measure the amount of each utility being consumed during specific time periods.

### Monitoring, Control, and Automation

Provide remote, centralized power system operation, reducing instrumentation while promoting better status detection and problem response.

### Energy Conservation and Efficiency Studies (Including Lighting Audits)

Identify opportunities for saving energy through additions or retrofits that meet client expectations for energy and cost reductions, as well as for operating performance.

### Energy System Integration

Integrate alternate and renewable energy technologies into the existing power system for more cost effective, efficient, reliable, and environmentally friendly operation.

## Electrical Safety Services

### Safety Studies and Analysis

- *Short Circuit Studies*—Identify the short circuit currents of system buses and branches.
- *Protective Device Coordination Studies*—Properly isolate electrical faults and minimize the effects of short circuits on the rest of the system.
- *Arc Flash Analysis*—Evaluate the system’s susceptibility to shock, arc flash, and arc blast, and mitigate or eliminate these hazards.

### Electrical Hazard Safety Labeling (of Electrical Devices)

Installation of NFPA 70E-compliant, UV-resistant vinyl labels that list the shock and arc flash hazard details of electrical devices, and the safety precautions employees should observe when working on or near these devices.

*The vision of D.L. Steiner, Inc. is to be the first electrical engineering firm that business and industry turn to for total electrical power solutions: electrical systems that are well designed, reliable, energy efficient, safe, and environmentally responsible.*

## **Electrical Safety Training**

On-site, live training courses to instruct qualified and unqualified employees in the NFPA 70E- and OSHA-mandated standards for workplace electrical safety.

## **Safety Audits**

In-depth review of client electrical facilities and related areas to identify potential issues that may affect compliance with OSHA regulations and consensus industry standards for electrical safety.

## **Safety Policies and Procedures Development**

Detailed, custom-written instructions addressing specific electrical safety needs, for example, lockout/tagout, electrical safety permits, job briefings, and switching procedures.

# **Maintenance, Safety, and Education Products**

## **ReBEEMS EPPM Program**

An Internet-based software program that helps D.L. Steiner clients effectively manage their electrical predictive/preventive maintenance (EPPM) and safety programs in order to meet NFPA 70B and 70E requirements. *ReBEEMS* makes all data related to these programs available online, 24/7, and includes:

- Maintenance-testing data for transformers, switchgear, breakers, fuses, relays, and cables
- Bus data (busways, bus plugs and plug fuses, power panels, control panels)
- Maintenance records, equipment manuals, electrical drawings, action items, and more

## **Electrical Personal Protective Equipment (PPE)**

D.L. Steiner is your distributor of choice for PPE items that meet the requirements of current electrical safety standards:

- Fire-retardant garments
- Arc flash suits, hoods, and face shields
- Voltage-rated gloves and tools
- *Haz-Cat Series* kits (complete, arc-rated electrical safety kits)



## Electrical Safety Educational Resources

- *Electrical Safety in the Workplace—the NFPA 70E and You!* DVD and workbook
- *NFPA 70E Standard for Electrical Safety in the Workplace, 2009 Edition*

In today's competitive environment, simply having electrical service is not enough. Success demands wise, economic use of this vital-but-expensive resource. And for this, you need more than just an electrical system. *You need an electrical solution.*

At D.L. Steiner, we specialize in solutions that improve system reliability and safety, increase operating efficiency, and help you monitor consumption so you can finally get a handle on utility costs. For an electrical system that truly works for you, contact D.L. Steiner. Let us provide a *total electrical power solution* for your business.



*Also ask about D.L. Steiner's...*

## Safety Training Courses

Comprehensive, effective training to keep you safe on the job:

- Lockout/Tagout
- Confined Spaces (with Rescue Planning)
- Fall Prevention
- Hazard Communication

# DLSteiner

## Electrical Engineers

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Document #M001LC003

03/11