



ELECTRICAL SERVICES

An industry leader since 1913, our Electrical Services line of business has the knowledge and experience to complete virtually any project. From initial conception-engineering, design for maintainability, and build information modeling- through the onsite construction process, our comprehensive services can help you with every step. We can even offer preventative maintenance of the systems after project completion. Throughout, I.B. Abel deploys cutting edge technology and adheres to industry-leading standards for safety and quality to deliver superior services on time and on budget.

We provide solutions to:

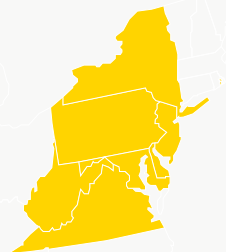
- Electrical Utilities
- Government/Public Works
- Transportation
- Institutional
(Higher Education)
- Commercial
- Healthcare
- Industrial
- Military

We specialize in the following Electrical Services:

- Emergency Services**
- Automation & Control**
- Construction**
- Maintenance**
- Engineering and Design**

SERVING

*Pennsylvania, Maryland,
Virginia, West Virginia,
Delaware, New Jersey,
New York, and Washington D.C.*



Electrical

- Design Build Projects
- Plans and Specification Projects
- Machinery Installations & Relocation
- Control Systems Design & Installation
- Industrial Plant Design & Installation
- Plant Electrical Distribution System Design & Installation
- Medium Voltage Installation & Troubleshooting
- Lighting Systems Design & Installation

Electrical Testing and Maintenance / Preventative Maintenance Solutions

- High, Medium and Low Voltage Breaker Testing
- Visual/ Mechanical Inspection
- Infrared Thermography Scans
- UltraSonic Testing
- Emergency Lighting Systems Testing
- Transformer Testing
- Transformer Oil Sampling & Analysis
- Battery Systems
- Substation Equipment
- Grounding System Inspection
- Ground Fault Detection System
- High, Medium and Low Voltage Conductor Testing
- Underground Cable Locating & Fault Detection
- Motor Testing
- Machinery Troubleshooting
- PLC Troubleshooting & Program Development
- PLC Program Backup & Storage
- Variable Frequency Drive Installation & Programming

Engineering

- Energy & System Audits
- Arc Flash, Short Circuit & Coordination Study & Analysis
- Power Quality Monitoring & Troubleshooting
- Engineering Analysis
- Energy Studies
- Load Flow Analysis
- Turn Key Design/Build Services
- Building Information Modeling
- Industrial Electrical System Design
- Lighting System Design

Automation

- Programmable Logic Controller (PLC) Programming
- System Design & Installation
- PLC Upgrades
- Human-Machine Interface (HMI) Programming
- Control Systems Design & Installation
- Control System Maintenance
- Panel Design & Fabrication

FULL LINE OF I.B. ABEL SERVICES:

**ELECTRICAL / COMMUNICATION / UTILITY
ENGINEERING / AUTOMATION / RENEWABLE / SUBSTATION**

24/7 SERVICE & SUPPORT