



## ENGINEERING

### Power System Studies

Praetorian Power Protection, LLC, established in 2014, provides power system modeling and analysis to strengthen the reliability and safety of your electrical distribution. Our engineers deliver tailored solutions for any voltage class, including short-circuit analysis, protective device coordination, and arc flash studies—each offering the insight needed to maintain safe, continuous operations.

### Engineering & System Optimization

We Also perform complex turnkey retrofit design and relay file development, enhancing your critical power path, improving safety and efficiency, while simultaneously minimizing downtime. Partner with Praetorian Power to safeguard your operations and ensure compliance with all regulations while maximizing the performance of your electrical infrastructure.

## POWER SYSTEM STUDIES

### Short-Circuit Analysis

Identifies prospective fault currents to ensure your electrical system is properly rated and protected against severe electrical events.

### Protective Device Coordination

Optimizes breaker and relay settings to isolate faults quickly while maintaining service to unaffected systems.

### Arc Flash Studies

Evaluates arc-flash hazards across your power system to improve worker safety and maintain compliance with IEEE, NFPA, and OSHA requirements.

## POWER QUALITY & SYSTEM PERFORMANCE

### Power Quality Analysis

Power quality directly impacts system reliability, efficiency, and equipment lifespan. Our engineers diagnose and resolve voltage disturbances, harmonics, and transients to reduce downtime, protect equipment, and improve overall system performance.

### Relay Protection Design & Upgrades

Our protective relay solutions detect, isolate, and respond to electrical faults to protect critical infrastructure and minimize downtime. We use advanced fault simulations to design, validate, and modernize relay systems to current industry standards.

## SPECIALIZED ENGINEERING STUDIES

### Neher-McGrath Study

The Neher-McGrath study evaluates the thermal performance and ampacity limits of electrical cables and conductors under real-world conditions. It ensures safe system operation by preventing overheating, reducing the risk of failures, outages, and fire hazards. This analysis also supports future load planning without the need for costly infrastructure upgrades.

*“Praetorian has been an **invaluable Partner** in our program. I couldn’t imagine getting this far without them.”*

**Corey Lidonne**

QA/QC, Infrastructure Construction Management

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