



FIELD SERVICES

The PGE Field Services teams provide a comprehensive suite of engineering and technician services with a focus on “Safety-Around-The-Clock”. Our teams are available for specific projects, on-going support projects, or staff augmentation projects. Our skilled and knowledgeable staff are proven leaders in supporting the unique standards and peak performance requirements of our client’s networks.

PGE’s world-class engineering and test personnel are fully trained on various test equipment, software applications and platforms including Omicron, Doble, Pro-Test and RTS. The PGE Field Services teams also provide maintenance, studies and analyses based on NERC standards.

FIELD SERVICES OFFERINGS

www.powergridengineering.com/field-services

- Relay Calibration, Testing & Commissioning
- Substation Construction
- Construction Management
- Meter Calibrations
- AC Hi-Potential Testing
- DC Testing
- Circuit Breaker & Switch Testing
- Control System Acceptance Testing
- End-to-End Line Relay Schemes
- Instrument Transformers & Medium Voltage Switchgear Testing
- Primary & Secondary Injection Circuit Testing
- Transformer & Ground Testing



FIELD SERVICES



FIELD SERVICES PORTFOLIO HIGHLIGHTS

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Field Services Relay Tech & Staff Augmentation services FL, GA, AL, MS, AR, IL, NC, LA, MA	Relay technician and staff augmentation services performing maintenance, construction, troubleshooting and emergency operations.
Smart Grid Battery Monitoring Florida	In support of a customer's Smart Grid initiative, PGE installed battery monitoring systems in over 185 substations, and requiring only 8 weeks.
Autotransformer Protection Upgrade Florida	Upgraded two 230/138 kV Autotransformers.
Generator Protection Upgrade Florida	Replaced primary generator protection of three combustion turbine generators with SEL-300Gs.
Substation Troubleshooting Florida	Performed troubleshooting of an improperly operating sudden pressure relay. Performed problem duplication and Root-Cause-Analyses studies via relay manufacturer partnership.
End-To-End Line Testing Florida	Performed end-to-end line protection testing on three 230 kV transmission lines using Doble F6150 with Satellite Synchronization. Also utilized an ASPEN file to create specific line fault simulations, and performed testing in POTT and DCB line protection schemes.
FERC Redundancy Project Florida	As the primary contractor, PGE constructed, tested and commissioned FERC mandated redundancy project of four 138 kV lines, three 230/138 kV Autotransformers, two 138 kV and two 230 kV Busses. Project also replaced 18 Coupling Capacitor Voltage Transformers, installed 8k-ft of conduit, 20k-ft of control cable, and added a second DC system (battery bank, battery charger and DC load center).
Field Services Multi-phase Substation Modernization Project Florida	Multi-phase 500/230/69 kV transmission substation project to increase transmission capacity, upgrade the protection and control system to improve system reliability, and bring the station into compliance with the latest NERC guidelines. 500kV and 230kV bus protection addition using the SEL-487B and GE-90 relays for Primary bus. Two 500 kV breaker control and breaker fail relays upgrade using the SEL-351S relay for breaker control and SEL-451 relay for breaker fail. Critical 500 kV transmission line breaker protection connection was performed in-service without any disruptions.
500 kV Breaker Replacement Louisiana	Replaced existing 500 kV Breaker with a Mitsubishi 3000A Breaker. Associated existing CT column was replaced with a Ritz 3000A unit. Existing 500/230-13.8 kV transformer metering CT circuit was re-tapped.

To learn more
about *PGE* services
and solutions, visit
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