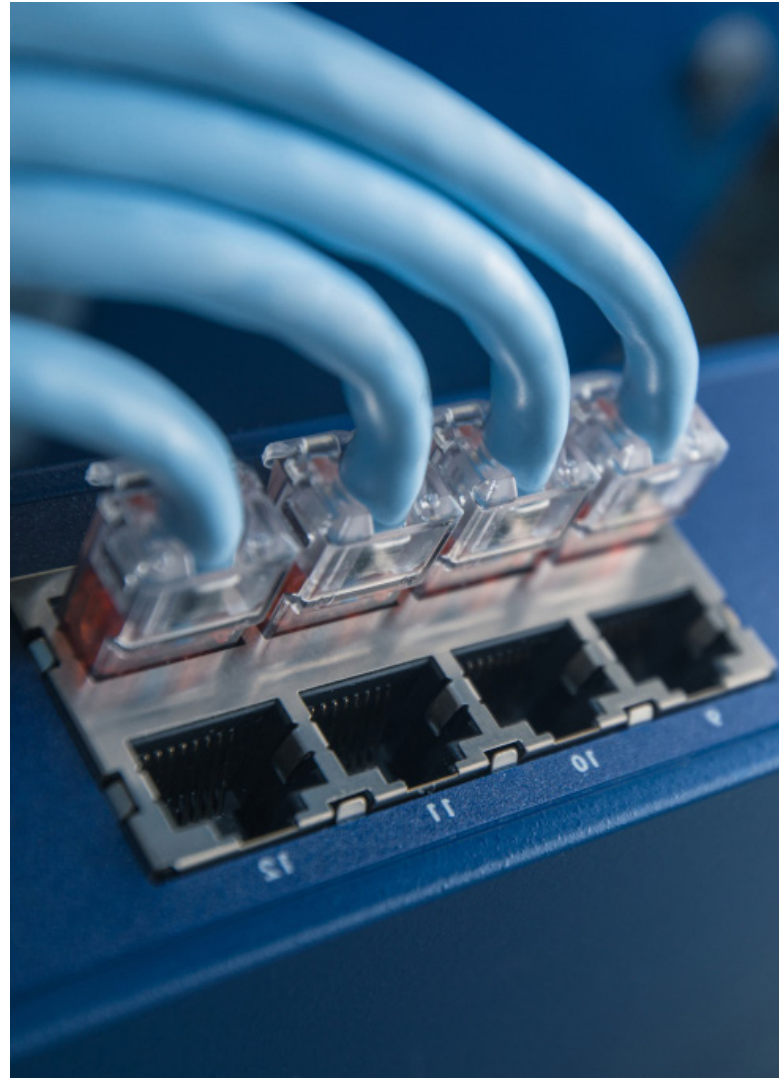


The modernization of the protective relay functions within the electric grid involves a knowledge of power systems and microprocessor based equipment to provide both safe and reliable operation. Legacy equipment replacement with state-of-the-art numerical relays represents a major sector of our business and capabilities. Our relay engineers and designers specify the proper equipment and set the new relays for secure and dependable operation. Our group is able to coordinate large areas of relay settings to minimize any misoperation and mitigate undesirable outcomes due to electrical system faults. We have created, reviewed, and approved protective relay settings for numerous relay types and applications and developed construction level control system designs for new and existing facilities.

PROTECTION & CONTROL SERVICES:

- Transmission Protection (Differential, Line, Transformer, Generator)
- Design (Relay Replacements, A&I – SCADA)
- Transmission System Coordination/Modeling (ASPEN, CYME, PSCAD)
- Distribution Protection (Reclosers)
- Line Constant Development
- PRC Compliance Analysis (PRC-024 thru 27, etc.)
- DER (Distributed Energy Resources)
- Studies (DG, Facilities, Short Circuit, Arc Fault, Grounding)
- Standards Development (61850, 67N)
- Specification Development (Panels, Major Equipment)
- Testing and Commissioning
- OE Support (Design, Project Management)
- Estimating



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