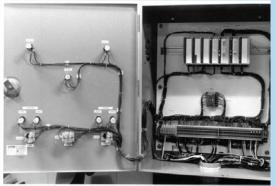
Our Company

Orion Technical Services, LLC is a technical service company that was formed in 2001. We offer a wide variety of engineering, design, commissioning, and testing services for both utilities and industry.

The two founding members posses a combined experience of over 28 years in system planning, system protection, electrical equipment maintenance, automation, and substation design over voltages ranging from 480 V to 500 kV.

Our goal is to provide high quality specialized technical services at a competitive price.





Contact Information



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electrical Engineering
and Technical Services
for Utilities and
Industry



Services

Protection & Control Scheme Studies and Design

- System modeling and short circuit studies
- System stability analysis
- System protection adequacy review
- Protective device coordination studies
- Relay settings
- Control scheme specification and design
- Digital Fault recorder (DFR) application

Planning Studies

- System modeling and load flow studies
- System expansion studies
- Motor starting, voltage flicker analysis
- Power factor correction
- Emergency restoration procedures
- Reliability assessment

Operation Review and Analysis

- Root-cause operation analysis
- Protective relay operation review
- Digital Fault Recorder (DFR) operations analysis

Automation and SCADA

- Automation specifications and scheme development
- Programmable Logic Controller (PLC) installation and programming
- Supervisory Control and Data Acquisition (SCADA) applications

Emergency and Non-utility Generation Design

- Utility interconnection design
- Coordination with local utility on requirements
- Generator and interconnection protection coordination and settings
- Start-up and test

Substation Design

- Design of distribution and transmission electrical substations
- Substation modifications
- Equipment specification
- Project Management for design and construction

Revenue Metering Design

Specification and design for revenue metering systems

Protection and Control System Commissioning

- Protective relay testing
- Control scheme maintenance and functional testing
- Testing on newly installed and older systems

Maintenance Program Development

- Development of maintenance programs for protective relays and electrical equipment
- Audit of existing facilities and preparation of documentation (single-line diagrams, equipment databases, etc.)
- Training on maintenance programs

Electrical Equipment Testing

 Testing services for electrical equipment (circuit breakers, transformers, CCVT's, PT's, etc.)

Load Management

 Design of manual and automated load management systems for demand control