

# ELECTRICAL & INSTRUMENTATION SOLUTIONS



[EXPANSEELECTRICAL.COM](http://EXPANSEELECTRICAL.COM)

## Optimize Your Energy Infrastructure and Control Systems with Expanse

Expanse electrical and instrumentation (E&I) turnkey offerings encompass a system's lifecycle from design and construction to commissioning, service and maintenance. We offer our clients solutions for high, medium and low voltage electrical generation, transmission, and distribution systems, while also providing solutions for the entire instrument and control technical spectrum.

Our E&I team's support from equipment design and specification through routine maintenance and upgrades ensures built in efficiencies and individual project requirements that yield maximum productivity.



### The Expanse Advantage

- Lifecycle Support for All Electrical & Control System Active Parts
- In-Depth Understanding of Electrical Code
- Advanced Instrumentation Integration Insight to Meet the Most Challenging System Requirements
- Existing MSAs with Majority of Operators



#### SPECIFICATION

Thorough project parameter analysis determines system specifications to ensure safe operations and maximize power efficiencies and controls.



#### INSTALLATION

Licensed startup teams verify installation after construction via integration testing and instrument calibration for a seamless transition from design to commissioning.



#### OPERATION

Ongoing support of operations includes proper documentation, system monitoring and troubleshooting to maximize uptime.



#### OPTIMIZATION

Routine maintenance, servicing and calibration maximizes optimization of existing installations and instrumentation.

# Capabilities

## ELECTRICAL SERVICES

- Low & High Voltage Wiring Installation & Testing
- Cable Tray & Conduit Installation & Maintenance
- MCC's, Switchgear & Transformers
- Power & Lighting Panels
- Heat Trace Installation & Maintenance
- Grounding
- Lightning Protection
- Substations
- Power System Analysis
- Field Electrification



## INSTRUMENTATION SERVICES

- Loop Checks
- Start-Up Assistance
- Control Panel, DCS & PLC Installation & Testing
- SCADA & Other Communications Systems Installation
- Calibration
- Instrument Installation, Troubleshooting & Maintenance
- Tubing Installation & Testing
- Instrument Stand Installation



## Why Expanse?

- 24/7 Emergency Response
- 70+ Years of Experience
- Turnkey Services & Solutions
- In-House Engineering Department
- Experienced Craftsmen
- Local Expertise on National Scale
- Customer Support Across Geographical & Operational Spectrums

**EXPANSE**  
~ ELECTRICAL CO. ~

### NEW MEXICO

Carlsbad

### NORTH DAKOTA

Williston

### OKLAHOMA

Oklahoma City • Tulsa

### TEXAS

Andrews • Big Spring • Houston  
Midland • Odessa • San Angelo

FOR MORE INFORMATION

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