

Power Delivery Services

K&A combines deep Power Delivery and Generation expertise with an average of 20+ years of industry experience per employee. Our multidisciplinary engineering team delivers transmission and distribution solutions ranging from 11 kV–33 kV overhead distribution systems to 66 kV–400 kV overhead, underground, and subsea transmission networks.

Transmission Services:

Engineering Design

- PLS-CADD, PLS-Pole, and PLS-Tower Modeling
- Tower analysis
- OPGW design and installation engineering
- Foundation Design
- Damper Analysis
- Construction Support

Review and Evaluation

- Evaluation of existing lattice towers.
- Review of Engineering Design and Construction Drawings
- Manufacturer Design and Drawing Review
- Owner's Engineering Support

Drawings and Documents

- Construction Drawings
- Plans & Profiles
- Structure Drawings
- Hardware Drawings
- BOM
- Damper Installation Drawings
- Technical Specifications and Documents

End-to-End

transmission line engineering services

11 kV to 400 kV

transmission & distribution expertise

IEC 61850 Ready

digital substation automation solutions

Substation Services:

Physical Design

- General Arrangements
- Bill of Materials
- Erection Diagrams
- Grounding
- Conduit
- Lighting
- Lightning Protection

Civil / Structural

- Structural Calculations
- Steel Assembly Diagrams
- Steel Fabrication Drawings
- Foundation Calculations
- Foundation Plan and Detail Drawings
- Site Grading

Electrical / Relay / Control

- One Line Protection Design Schemes
- AC and DC Schematics
- Relay Panel Layouts
- Wiring Diagrams
- Logic Diagrams
- Short Circuit Coordination
- Relay Settings
- Load Flow
- Harmonics Studies

SCADA / Substation Automation

- Interface with all RTU's
- IEC61850 Digital Substation

Substation Engineering

- Feasibility Studies
- Cost estimates
- Conceptual and Detailed Design
- Technical Specifications
- Defining upgrades and refurbishments to existing substation compensators

