

TRANSMISSION LINE ENGINEERING & DESIGN

At DiGioia Gray, we have extensive experience in power delivery services from 4kV through 765kV. We provide innovative engineering and construction services to design, maintain or upgrade power delivery systems in a cost effective, safe, timely and reliable manner. Whether it is with new construction or increasing the life and function of an existing line, DiGioia Gray's experts are experienced in overhead line and structure design from inception to completion. We integrate utility standards into the



design by applying utility preferred methods of construction. Our staff members are experts in design codes and understand the engineering principles and reasoning behind various criteria. We have contributed to the creation of transmission line design codes and guides.

SERVICES

- New Line Design
- Upgrading and Upgrading Analysis and Design
- Line Rebuilds
- Outage Sequencing
- Line Optimization - Total Cost
- Structural Analysis and Design
- Reinforcement Design
- PLS-TOWER, PLS-CADD and PLS-POLE software expertise
- Inspections and Evaluations
- Foundation Analysis and Design
- PCS Antenna Addition
- Failure Investigations
- Underground Line Design
- Fiber Optic Design
- Owner's Engineer
- Peer Reviews
- Feasibility Studies and Conceptual Designs
- Constructability Review
- Construction Monitoring
- Weather Studies
- Innovative Calculation Tools
- Siting and Permitting
- Emergency Restoration
- Standards and Guideline Development
- Conductor Sag-Tension Design
- Insulation Design
- Conductor Selection Optimization
- Guy and Anchor Design