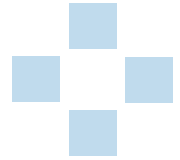


POWER DELIVERY SERVICES

Expertise in end-to-end project lifecycle solutions



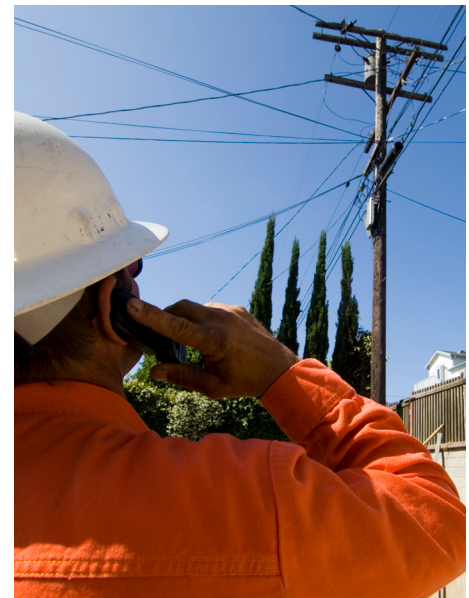
FIRM CAPABILITIES

The engineering experts at MasTec Professional Services keep pace with advancing technologies in the dynamic electric utility industry. We have executed a wide variety of aerial, underground, distribution, and transmission projects with a superior level of consistency, quality, and, most importantly, client satisfaction.

Whether a client needs a high-voltage transmission system designed or a new make-ready program established, we have the experience, skilled workforce, effective management, and the latest equipment and technology to meet the challenge safely and proficiently.

TRANSMISSION & DISTRIBUTION SERVICES

- Multi-discipline Engineering Design
- Grid Modernization Program Development and Execution
- Storm Hardening Programs
- Overhead to Underground Conversions
- Distribution Automation Studies and Implementation
- Overhead and Underground Rebuild, Reconductor, and Green Field
- Highway Relocations
- Integrity Management/Corrosion Engineering
- Substation and Step-Down Eliminations
- Make-Ready Engineering/Pole Attachments
- Lightning Performance and Grounding Evaluations
- Right-of-Way Surveys and Acquisition
- Permitting Support – Environmental, Municipal, State
- Co-occupancy Planning/Acquisition
- Construction Coordination
- Engineering, Procurement, and Construction Support
- PJM Interconnect Support Services



SUBSTATION SERVICES

- Multi-discipline Engineering Design
- Site Selection
- Substation Design
- Enterprise Asset Automation

CONSTRUCTION SUPPORT SERVICES

- Outage & Conversion Planning
- Constructibility Reviews
- Coordination Studies



FINANCIAL ANALYSIS

- Technical Audits
- Construction Progress Reviews

CONSULTATION AND STUDIES

- Owner's Engineer Services
- Technical and Economic Feasibility
- Site and Subsurface Investigations
- Permits and License Applications
- Environmental Impact Reports
- ROW Negotiation and Procurement
- DER Feasibility Studies
- PJM/DER Interconnection Planning

PRELIMINARY ENGINEERING

- Site Selection
- Criteria Preparation & Cost Estimates
- Conceptual Design Studies
- Environmental Studies
- Planning/Scheduling
- Long Lead Material Lists/Requirements
- System Mapping and Assessment

ENGINEERING SITING SUPPORT

- Attendance at Public Meetings
- Line/Site Selection & Route Review
- Subsurface Utility Investigation
- Conceptual Line Design Studies & Analysis
- Technical & Economic Feasibility Review
- Preparation of Utility Commission Engineering Design Docs
- Construction Access Identification, Review, and Assessment

LINE DESIGN SUPPORT

- LiDAR Data Modeling
- NERC Clearance Review Using PLS CADD & LiDAR with Least Impact Mitigation Determination
- Existing Tower Analysis/Modeling

DISTRIBUTION DESIGN

- Capacity & Reliability Planning
- Joint Use Transmission & Distribution Design
- New UG Substation Getaway installations
- New Circuit Creation and Planning Validation
- Line Reconductor/Rebuilds/Voltage Conversion
- Line Relocations: Highway, Building Development, UG Utility Installation
- UG Network System Upgrades & Additions: Manhole/Vault/Splice Chamber Inspection, As-built Route Verification, Duct Proofing, Duct Bank Design
- Streetlight System Mapping and Upgrades
- ADSS Fiber in the Power Space
- EV Charging Station Design, Make Ready, and Installation
- Grid Modernization: Copper to Radio or Fiber Communication Conversions, Siting/Planning of Smart Device Deployment
- DER Impact Studies
- Distribution Sectionalization, Recloser Modernization
- Joint Use Attachments (Make Ready)

TRANSMISSION LINE DESIGN

- Green Field, Reconductors, and Rebuilds
- OPGW Installation Projects
- Lightning Performance Projects
- Grounding Studies
- Soil Boring & Geotechnical Reports
- Foundation Design: Drilled Piers, Steel Caissons, Direct Embed, Pile, and Cap
- Foundation Rehab Design
- Structure Design Details and Loading Trees
- Prepare Structure BOM for Bid
- Attend Field Walkdowns
- Plan & Profile
- Stringing Charts
- Staking Details

PERMIT DRAWINGS

- Planning Commission
- Land Development
- Construction Permits
- Highway, Railroad, and Waterway Crossing Drawings
- Public ROW Occupation
- Traffic Control

SUBSTATION DESIGN

- Physical Electrical Design: Clearances, Equipment Location, Bus Selection, Grounding System
- Civil/Structural Design: Site Plans, Grading, Storm Water, Oil Containment, Bus Supports, Foundations, Steel Fabrication Drawings
- Electrical Package: One- and Three-line, AC and DC Schematics, Relay Elementaries and Settings, Panel Front Views, Current and Potential Drawings, Wiring, and External Connection Drawings

SYSTEM PROTECTION DESIGN

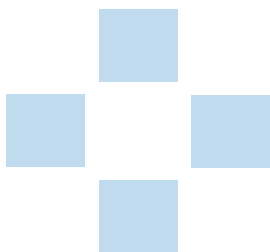
- Relay Settings
- System Studies
- Device Coordination

POST DESIGN & CONSTRUCTION SUPPORT SERVICES

- Assist in Construction Bid Technical Review
- Structure Staking
- Engineering Support During Construction and Commissioning
- Recording "As-Built" Information During Construction
- Preparing "As-Built" Drawings for Record
- Scheduling
- Estimating
- Quality Assurance/Quality Control
- Progress and Cost Reporting

EMERGENCY RESPONSE SERVICES

- Storm Damage Patroller/ Screener/Assessor
- Post Restoration Review



COMMITMENT TO SAFETY

At MasTec companies, we are committed to protecting the environment and conducting our operations in a manner that promotes the health and safety of our employees, customers, and the communities in which we operate. Safety is a core value. We recognize the need for our workforce to have a safe and healthy workplace and are committed to maintaining a strong and sustainable safety culture in our organization. We prioritize investments in safety equipment and training because we care deeply about everyone going home safely.

ABOUT

MasTec Professional Services provides results-driven engineering, design, and integrated services to the power, oil, gas, and water industries. With a genesis in construction and a skilled team of multidiscipline engineers and project management professionals, we deliver end-to-end solutions for infrastructure projects across the country.

The MasTec Professional Services team is committed to excellence in every aspect of our work. We create collaborative partnerships with our clients, building trust by consistently exceeding expectations. Whether providing a singular service or a complex, comprehensive program, we bring a dedication to safety, a deep understanding of infrastructure, and the highest standards of performance to every job. Our best-in-class abilities include design, asset integrity management, feasibility studies, surveys, constructability reviews, turnkey delivery services, and more.

MasTec Professional Services is a subsidiary of MasTec, a certified Minority-Controlled Company by the National Minority Supplier Development Council (NMSDC).



HEADQUARTERS

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