



Technical Field
Services

M&I



Electric
INDUSTRIES, INC.

Acceptance/Preventive Maintenance Power Generation, Refining, Petr

TECHNICAL SERVICES

Since 1946 M & I Electric has been a leading electrical products and service company. M & I offers complete in-shop and on-site electrical testing, maintenance, and repair services for Power Generation and Distribution equipment. Equipped with the latest, state of the art test equipment, M & I technicians and engineers are able to test and calibrate the most sophisticated electrical distribution system in service today.

Power Generation Electrical System Acceptance Testing and Start-Up Services

Acceptance testing and start-up services provide customers with the assurance that their equipment complies with the specifications and establishes a base line for future reference. Experienced engineers and technicians utilizing the latest state-of-the-art test equipment can assure our customers a timely start-up for their plants.

Generator Tests

- Winding Resistance, Polarization Index
- ELCID and RTD testing
- DC Hi-Potential and Delta-Tan testing

High Voltage Tests

- Power Factor Analysis
- Transformer Winding Resistance
- Transformer Turns Ratio
- Insulating Fluid Analysis
- Dissolved Gas Analysis
- Circuit Breaker Timing
- Instrument Transformer Tests
- Protective Relay Calibration
- Infrared Analysis

Low Voltage Tests

- Primary Current Injection
- Contact Resistance
- Insulation Test
- Functional Test of Components and Systems



Maintenance Contracts



- Custom Preventive Maintenance
- Monthly Inspection of Substations
- Transformer Inspections
- Total Combustible Gases Checked
- Substation Battery Inspections & Maintenance
- Annual Testing of Incoming Line Equipment
- Scheduled Outage Services
- Infrared Analysis

Testing and Startup Services for Petrochemical, and Heavy Industries



**Shop and On-Site Services
24 Hours per Day**

Substation and Power Delivery Testing

M & I's power delivery testing services address the challenge of substation reliability. With proper testing and calibration of the protective devices, the likelihood of nuisance tripping and damage to substation equipment and personnel is reduced significantly. The following services are a part of M & I Electric's offering:

- Transformer Testing and Repair
- Oil Circuit Breaker Testing and Repair
- SF6, Vacuum and Air Circuit Breaker Testing and Repair
- Cable Testing
- Station Battery and UPS System Testing
- Protective Relay Testing and Calibration
- Infrared Analysis

Preventative Maintenance and Repair

- Primary Current Injection Testing
- AC/DC Hi-Potential Testing
- Oil and Gas Analysis
- Infrared Analysis
- Breaker Retrofits, Reconditioning and Repair
- Switchgear Modifications, Upgrades and Repair



TURNKEY ELECTRICAL SYSTEM CAPABILITIES

By combining our Switchgear and Control Manufacturing, E & I Field Construction Services, and Technical Field Services groups, M & I Electric is uniquely qualified to provide turn-key electrical installations.

FIELD INSTALLATION



Control Cable Termination

ISO 9001 CERTIFIED MANUFACTURING



*Switchgear and Controls
Manufacturing Plant Assembly Bay*



Switchgear Installation



*Manufacturing Plant Assembly Bay with
Integrated Power and Control Buildings*



www.mielectric.com

South Coast Electric Systems, L.L.C.
Port Bienville Ind. Park, 13061 Road D
Bay St. Louis, MS 39520
228-533-0002, FAX 228-533-0082

6410 Long Drive
Houston, Texas 77087
(713) 644-8182
FAX (713) 644-7805

P. O. Drawer 1792
Beaumont, Texas 77704
(409) 838-0441
FAX (409) 838-1066

832 S. Post Oak Rd.
Sulphur, LA 70663
(337) 626-1702
FAX (337) 626-1704

No. 88 Cao Bao Road
Tower E Room 1706
Shanghai 200235 China
86 21 6432 5985, FAX 6428 2923

M & I Electric Far East PTE LTD
No. 8 Aljunied Ave 3
Oakwell Building Singapore 389933
65 67412788, FAX 65 67410621