

FIELD SERVICES · 01

Testing & Electrical Maintenance

Diagnostic testing and electrical maintenance delivered as one continuous service. Our certified technicians measure the condition of every asset — insulation, contact resistance, thermography, oil, partial discharge — then complete the corrective work in the same outage window. Every visit ends with a NETA-format report, prioritized remediation list, and signed-off as-left data.

STANDARDS

NETA ATS-2021 · NETA MTS-2023 · NFPA 70B · IEEE C57 / C37 · ANSI

Diagnostic Testing

- Insulation resistance & polarization index
- Hi-pot (DC & AC) on bus, cable, and switchgear
- Contact resistance (micro-ohm) testing
- Power factor / Doble testing on transformers and bushings
- Turns-ratio (TTR) and excitation current
- Ground continuity & fall-of-potential earth testing

Predictive & Condition Assessment

- Infrared thermography surveys
- Partial discharge (PD) testing on MV switchgear and cable
- Transformer oil DGA, moisture, and dielectric testing
- Vibration and operating-time analysis on breakers

Preventive & Corrective Maintenance

- Breaker racking, lubrication, and contact inspection
- Bus joint torque verification and re-termination
- Relay testing, trip-curve verification, and re-settings
- Transformer LTC service and oil filtration
- Cable termination repair and re-stress-coning

Reporting & Compliance

- NETA ATS / MTS-format test reports
- Comparison vs. nameplate and manufacturer specs
- Prioritized remediation recommendations
- Photo documentation and as-found / as-left data

Schedule a testing or maintenance visit.

Send your equipment list and timeline — our service team responds within 24 hours. **Email:** info@akjelectric.com · **Call:** (865) 217-6718 · **Web:** akjelectric.com/quote