

FIELD SERVICES · 02

Commissioning & Pre-Commissioning

AK&J; Electric performs full pre-commissioning and commissioning on new and retrofitted electrical systems. We verify every aspect of the installation against design intent — catching discrepancies before power is applied — and deliver the documentation your AHJ and insurer require, from pre-energization checklists to as-built turnover.

STANDARDS

NETA ATS-2021 · IEEE C37 · IEEE 80 · NFPA 70 · ANSI

Pre-Commissioning Checks

- Visual & mechanical inspection (NETA ATS Section 7)
- Bus & cable hi-pot dielectric withstand
- Insulation resistance and continuity verification
- CT/PT ratio, polarity, burden, and secondary continuity
- Grounding & bonding verification per IEEE 80 / NEC
- Torque verification on bus joints and terminations

Commissioning & Energization

- Protective relay setting upload and end-to-end testing
- Trip-timing, pickup, and zone coordination verification
- Control scheme, interlock, and safety-shutdown functional tests
- Sequence-of-operation and breaker close/trip testing
- Initial energization sequencing and live-phase verification
- Load-flow validation against design

Documentation & AHJ Sign-Off

- Pre-energization checklist signed per piece of equipment
- NETA commissioning report with all test data
- Relay setting sheets — as-commissioned vs. design
- As-built one-line markup with field changes noted
- AHJ inspection support and sign-off package

Project Closeout

- Punch-list resolution and re-verification
- O&M; manual handover and as-built drawing turnover
- Operator training on protection settings and emergency procedures
- Recommended preventive-maintenance schedule

Bring us in early on your next energization.

Share your one-line and energization date — we'll align hi-pot windows, AHJ inspections, and relay testing.

Email: info@akjelectric.com · **Call:** (865) 217-6718 · **Web:** akjelectric.com/quote