BUZZ HIGH VOLTAGE, LLC

Expert Consulting for All Things High Voltage

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WHY BUZZ HIGH VOLTAGE

- **SAFETY:** Comprehensive safety audits, procedural reviews, and training help protect personnel from electrical hazards.
- **RELIABILITY:** Development of inspections, testing, and maintenance prevent equipment failures and disruptions.
- **COMPLIANCE:** Deep expertise in IEEE, IEC, and UL standards ensures clients meet regulatory requirements
- **EFFICIENCY:** Optimized high voltage systems deliver reduced costs, improved uptime, and operational benefits
- **INNOVATION:** R&D capabilities help clients understand emerging grid technologies and stay ahead of industry trends

SERVICES

- HV Testing & Inspection
- HV Systems & Equipment
- Specialized Services
- Standards & Compliance
- Engineering & Technical Services
- Computer Modeling

SAMPLE CLIENT ENGAGEMENTS

Cable Accessory Manufacturer	R & D Startup	Inspection Services Provider
Guided a medium voltage cable accessory manufacturer in developing a state-of-the-art HV test area for routine and type testing, covering equipment specifications, layout, grounding, and ISO 17025 compliance through to commissioning.	Supported a power industry startup in developing innovative medium voltage products through comprehensive HV testing solutions including lightning impulse, partial discharge, insulation resistance, short circuit and heat rise test training.	Conducted expert failure analysis of main grid power transformers at substation sites and pre-tanking inspections at manufacturing facilities, identifying critical reliability issues and preventing costly operational downtime.

Commercial Test Laboratory	HV Sensor Manufacturer	Transmission Line Manufacturer
Delivered comprehensive support including operating power frequency withstand, lightning impulse, heat rise, partial discharge and insulation resistance tests, equipment repair, personnel training and new test procedure development.	Performed a thorough safety audit of HV sensor test areas covering procedure review, staff interviews and environment assessment, delivering a detailed recommendations report and an in-person training session for all staff.	Conducted COMSOL Multiphysics finite element modeling of 765-kV transmission line hardware corona performance, generating EM field plots from SolidWorks models and comparing results to industry thresholds to optimize design.

