

About Us

PowerLabs is the primary calibration and testing laboratory for Constellation. We have four individual labs strategically located from the upper-mid west to the northeast, enabling our experienced staff of experts in engineering and metrology to provide power generation and distribution companies the ability to meet the urgent demands of power grids and critical supply chains all over the world.

We also maintain an A2LA accreditation for calibration, assuring our technical competence as a laboratory to ISO 17025 standards and extending our services to any quality-sensitive or highly regulated industry. We pride ourselves in knowing the quality of our measurements keep the industry running and— more importantly— ensures the safety of our communities.

High Voltage Lab Locations

Mid-Atlantic
227 East Airport Rd
Indiana,
PA 15701

Northeast
175 N Caln Rd
Coatesville,
PA 19320

On-Site High Voltage Calibrations

No need to ship sensitive equipment for accredited high voltage calibrations, let us come to you!



Contact Us

- ☎ (610) 380 - 2351
- ✉ powerlabs@constellation.com
- 🌐 www.constellationpowerlabs.com



High Voltage Calibrations

ISO 17025 Accredited High-Energy Calibrations —High Voltage Testing & High Current Testing



Constellation.

PowerLabs

High Voltage Calibrations

PowerLabs maintains the widest scope of accreditation of high voltage calibration and testing in the Americas. We offer ISO 17025 accredited high-voltage, high-current, lightning impulse and partial discharge calibration difficult to source.

We combine over one hundred years of calibration experience with world class technology.

We are actively involved in high voltage measurement and testing, participating as a member of IEEE and in subcommittees under High Voltage Testing Techniques (HVTT) that write the standards for High Voltage.

We meet requirements that satisfy national and international high voltage standards:

- ISO 17025
- IEC 60270
- IEEE Standard 4
- ANSI Z540
- IEC 60060-2
- 10 CFR 50 / Appendix B



Services:

AC & DC Voltage Testing

AC Voltage Testing capabilities include 50/60 Hz, 1,000 kV RMS & Pk/V₂. ISO 17025 accredited up to 800 kV. DC voltage testing 700 kV and ISO 17025 accredited to 450 kV.

Tan Delta / High Voltage Capacitance Testing

Tan Delta / High Voltage Capacitance Testing supporting Tan Delta Bridge Measurements, HV Capacitors to 200 kV, Tan Delta Measurements to Dissipation Factor (DF) 0.0000025. 50/60 Hz testing capable.

High Current 60 Hz and DC Testing

We provide ISO 17025 accredited high current testing up to 5,000 Amps and up to 17,500 amps traceable to national measurement institute standards via 17,500 amps direct measurement to current transformer (CT). DC Current Testing up to 10,000 amps.

Motor / Generator Test Systems

Fully calibrate and test your 60 Hz motor / generator test system. Calibration capabilities include Variable Frequency Drive (VFD).

Impulse Voltage Testing

Calibrate Lightning Impulse (LI), Switching Impulse (SI) and Chopped (LIC) on equipment up to 2.5 MV. We are ISO 17025 accredited for these services. Exelon PowerLabs is the only laboratory in North and South America that can perform these parameters accredited.



Our Partnership Enhances Our Accredited High Voltage Calibrations

We partner with Phenix Technologies to address a significant gap that has existed in the high voltage markets. Prior to our alliance, ISO 17025 accredited high voltage calibrations for most high voltage parameters were not available or had to be sourced from Europe.

Our partnership aims to prevent the unnecessary downtime and raise quality levels to expand access to accredited high voltage calibrations in North and South America.

Our collaborative partnership melds the strengths of Phenix's deep expertise in building quality high voltage and high current products and our high-quality metrology and testing proficiency to deliver an unprecedented level of service.