

# Exelon PowerLabs®

The true measure of excellence

## Laser Scanning



Exelon PowerLabs uses laser scanning equipment that quickly captures detail of an entire area such as a substation or a nuclear plant. Laser scanners create a 360-degree point cloud enabling a high level of accuracy.



### Benefits

**Design and Engineering** – The laser scan data can support reverse engineering, maintenance, and retrofits efforts.

**Employee Safety & Training** – The data can be used in applications like Digital Plant Viewer so employees can familiarize themselves with high-risk areas without having to enter.

**Pre-Outage** – The data can be used to plan for equipment replacement, relocation, or simulate travel path clearances and interferences, thereby minimizing maintenance, rework and delays.

**Digital Twin** – Scan data can be converted into an exact electronic copy of a site or piece of equipment.



### Common Applications

- Substation scanning
- Track changes in a turbine building
- Find equipment failures or malfunctions
- Monitor structural changes
- Create a virtual power plant
- Dissimilar metal welds
- Operator training simplification
- Design and engineering
- Identify interferences with installing new equipment

If you would like to discuss your project, contact Tom Wait at [Thomas.Wait@exeloncorp.com](mailto:Thomas.Wait@exeloncorp.com) or (610) 380-2464.

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## About Us

Exelon PowerLabs has been performing calibration and laboratory since 1911. We have labs strategically located from the upper-midwest to the northeast, enabling our experienced metrology and engineering technicians to support our nation's nuclear facilities, power grids, and critical supply chains.

### Calibration

PowerLabs performs more than 63,000 calibrations annually on a wide array of equipment used across Exelon facilities. Our calibration supports the safety of our employees from Tag 200's to torque wrenches.

We have a leading accreditation program that includes ISO 17025 and adheres to 10 CFR 50, Appendix B, 10 CFR 21, NQA-1 and ANSI N45.2 since we are an approved nuclear supplier. These guidelines are the basis for which we have built our Quality Program.



### Technical Services

Due to the breadth of our experience in the nuclear industry, we have amassed an extensive inventory of lab equipment to perform a full spectrum of calibration, testing, and analysis services. We also provide the following independent technical services:

- Component Failure Analysis
- Parts Quality Initiative Testing (PQI)
- Commercial Grade Item Testing
- Diesel Fuel, Grease, and Lubricant Testing
- Chemical Analysis & Testing
- Material Identification
- Metrology