

About Us

Since 1911, PowerLabs has continually provided customers quality calibrations and testing. First established under the Philadelphia Electric Company's testing section, we have since grown and expanded our laboratory capabilities not only in metrology but in testing and analysis over the last half century.

Today, PowerLabs is the primary calibration and testing laboratory for Constellation. We have labs strategically located from the upper-Midwest to the Northeast to better support the urgent demands of quality driven industries.

Quality and Accreditations

We maintain both A2LA Accreditations for ISO 17025 calibrations and Appendix B calibrations, assuring our technical competence as a laboratory.

Being an Approved Nuclear Supplier, we adhere to strict code requirements including 10 CFR 50, Appendix B, NQA-1 and ANSI N45.2. These guidelines are the basis for which we have built our Quality Program.



NEI TIP Award

Nuclear Energy Institute (NEI) recognized Constellation's Parts Quality Initiative in 2018 and awarded the program with the coveted Top Innovative Practice (TIP) Award.

Learn more about how our PQI program became recognized as one of the leading innovations in nuclear.

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PQI

Parts Quality Initiative

PQI TESTING



Constellation.

PowerLabs

PQI Services

Parts Quality Initiative (PQI) — Critical Parts Testing

In 2006, when Constellation experienced frequent events caused by parts quality issues, Constellation created the Parts Quality Initiative (PQI) program.

The PQI program is a continuous improvement process that tests parts critical for safe, reliable plant performance, allowing defective parts to be identified before installation in the plant.

These parts can be returned promptly to manufacturer for replacement, leading to significant improvements in plant reliability and cost savings.

As an independent third-party testing company, we have results for thousands of tested critical parts captured in our OneLab PQI database, which provides predictive analytics insights and part failure-rate trends.

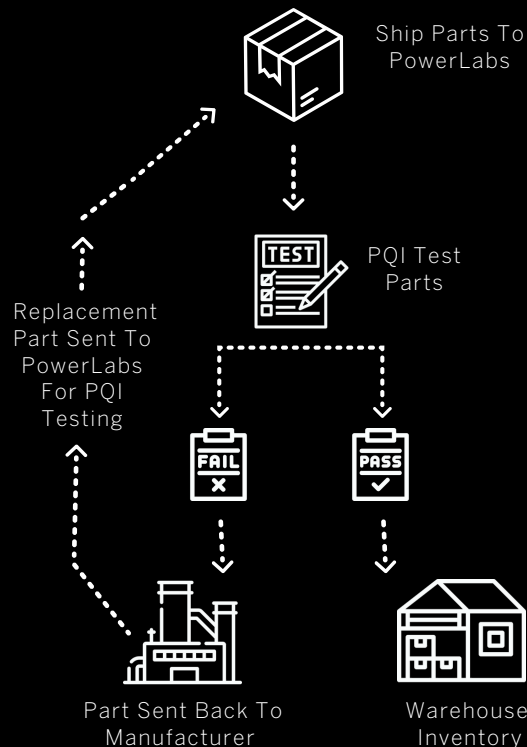
PowerLabs has tested over 100,000 critical parts, thereby preventing the installation of nearly 6,000 poor quality parts in critical Nuclear plant applications.

PQI is a proven program designed to save you time and money by:

- Preventing defective parts from entering inventory through rigorous PQI testing
- Reducing risk from installing defective parts that can potentially trigger a significant event— and result in costly delays and down power events
- Identifying high probability failure rates in parts through PQI trending data

PowerLabs' PQI program complies with the parts quality recommendation required in INPO IER L2 21-4 and has been proven to improve plant performance dramatically.

PQI Drives Efficiencies



How Does PQI Work?

Step 1: DATA

A PQI membership includes a subscription to Constellation's web-based OneLab portal, which reveals our extensive PQI Analysis database comprised of proven PQI test plans for more than 2,000 models and historical failure trends on more than 80,000 parts.

Since 2006, Constellation has compiled data revealing trends in failure variables specific to part type, manufacturer and model number for safety and non-safety related applications.

Step 2: TEST

Send the hardware to PowerLabs for PQI critical characteristics testing. PQI ensures defective parts are identified before inventorying and installation, reducing downtime, labor and logistics costs.

Testing newly procured parts before inventorying allows failed parts to be replaced at no additional cost, resulting in substantial part replacement savings and reduced cost of quality. PowerLabs can also PQI test inventoried parts to verify older parts still perform their critical function.

