FURANO
PACIFIC CONSULTING

CAPABILITY SHEET
2026

Power quality and power system testing

Capability summary

Power quality audits and power system investigations with our own field representatives and Furano-owned Class A instrumentation: rapid mobilization, consistent field practice, and professional engineering analysis behind every measurement.

WHAT WE DO

Class A instrumentation

IEC 61000-4-30 Edition 3 Class A. 24-bit synchronous sampling at 80 kS/s, DC to 30 kHz bandwidth; 1000 V RMS inputs, CAT III 1000 V and CAT IV 600 V; 1 A to 6000 A with flexible current probes; GPS-synchronized, gapless logging for eight weeks and longer per session.

Event capture and disturbance analysis

Voltage transients to ±8 kV at 20 MS/s; dips, swells, interruptions, rapid voltage changes, waveshape deviation and mains signalling; inrush capture for motor starting and energization; harmonics and interharmonics to the 50th, supraharmonics 2 to 30 kHz; flicker Pst and Plt, and voltage and current unbalance.

How we work

Scope and mobilize: a Furano field representative attends site with Furano-owned instruments, connected under safe work procedures. Measure: gapless Class A logging over the agreed period, from spot checks to multi-week studies. Analyze and report: EN 50160 and IEEE 519 compliance reporting, PQDIF and CSV data export, with findings and ranked recommendations reviewed by a Professional Engineer.

SERVICES

- Harmonic audits and IEEE 519 compliance at the point of common coupling
- Utility supply verification to EN 50160 and support for supply-quality disputes
- Nuisance tripping, unexplained equipment failure, overheating conductors and transformers
- Drive, rectifier and variable frequency drive power quality investigations
- Motor starting, inrush and voltage drop studies
- Transformer and feeder loading, unbalance and neutral-loss analysis
- Capacitor bank switching and transient investigations
- Baseline audits and load studies before major load additions or service upgrades

WHY FURANO

- Engineer-led. Professional Engineer oversight from scoping through reporting, registered with Engineers and Geoscientists BC.
- Proven on live sites. Logging and distribution audits delivered on operating commercial and industrial facilities without disruption.
- In-house equipment and field representatives. No rental lead times or third-party subcontracting.
- Actionable results. Measurements tied to engineering recommendations, not data files.

TO SCOPE A POWER QUALITY AUDIT OR TESTING PROGRAM, WRITE TO ELECTRICAL@FURANO.CA.

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