FURANO
PACIFIC CONSULTING

CAPABILITY SHEET
2026

Risk engineering

Electrical risk assessment for brokers, underwriters and risk managers

What fails first, how long the replacement takes at current lead times, and what it costs to reduce.

WHAT WE DO

We model and measure, not only observe
Short circuit, coordination and arc flash incident energy to CSA Z462 and IEEE 1584-2018.

We measure with our own instruments
Class A power quality logging on the same mobilization. No rental lead time, no subcontractor.

Lead times set the outage duration
Medium voltage switchgear is quoting 52 to 80 weeks in 2026. We carry that into the interruption case.

Findings are costed and ranked
Every recommendation carries a budget cost, a lead time and a position in the queue.

SERVICES

- Arc flash studies (CSA Z462, IEEE 1584)
- Short circuit and coordination studies
- Power system modelling and load flow
- Class A power quality measurement
- Harmonic assessment to IEEE 519 at the point of common coupling
- Equipment criticality and lead times
- Condition and obsolescence assessment
- Standby power and resilience review
- Maintenance review (CSA Z463, NFPA 70B)
- Forensic investigation and root cause

WE LEAD WITH

25 kV class campus, recurring drive losses
Root cause determination on an insurance claim: distortion beyond IEEE 519 limits at the point of common coupling, with a tiered mitigation plan.

Standby power under real conditions
Generator impedance of 18 to 20 percent against 5.75 percent on the transformer, amplifying distortion three to four fold.

Class A instrumentation, in house
Class A to IEC 61000-4-30 Edition 3. Multi-week gapless logging with our own field representatives.

WHY BROKERS AND UNDERWRITERS ENGAGE US

- Sealed by a Professional Engineer registered with Engineers and Geoscientists BC, and checked by a second engineer before issue.
- Recommendations costed, ranked and tied to a lead time.
- Pre-loss assessment and post-loss investigation from one bench, with conflicts disclosed in writing.
- We assess electrical and mechanical systems. We do not adjust claims or opine on coverage.

SHOW US A RISK. WE WILL TELL YOU WHAT A FAILURE WOULD INTERRUPT.

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