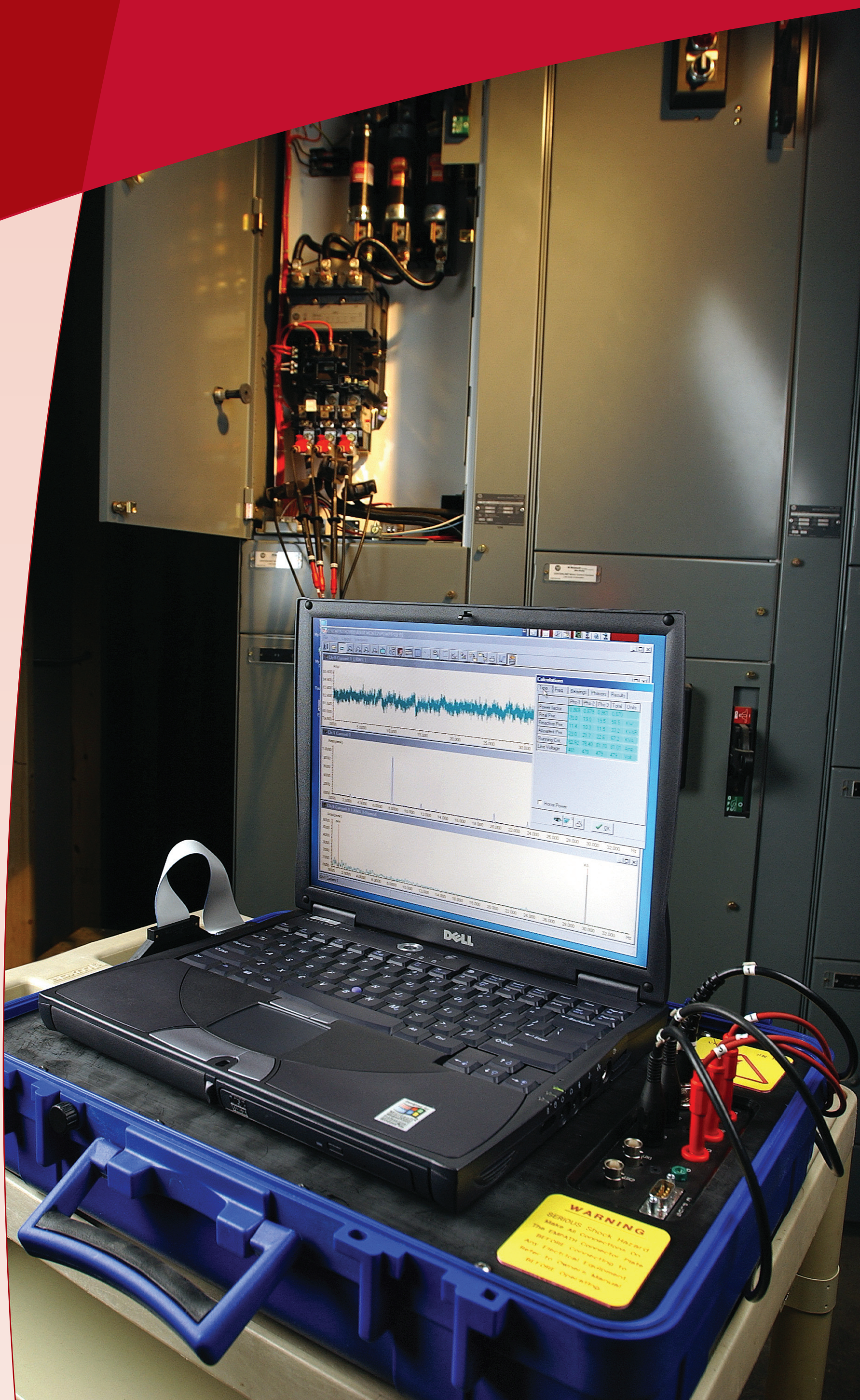




# More NDE Options: Electronic Motor Diagnostics

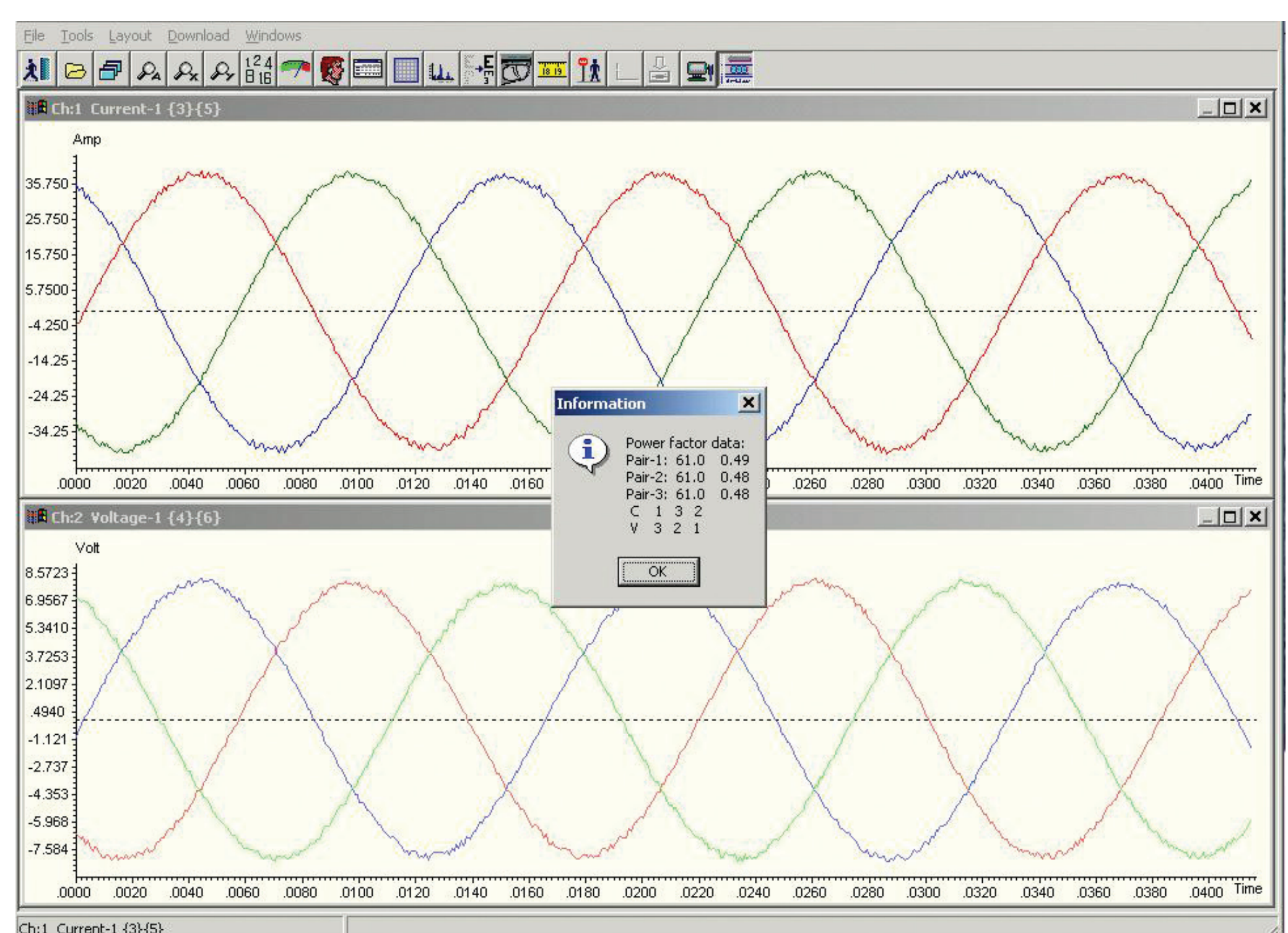
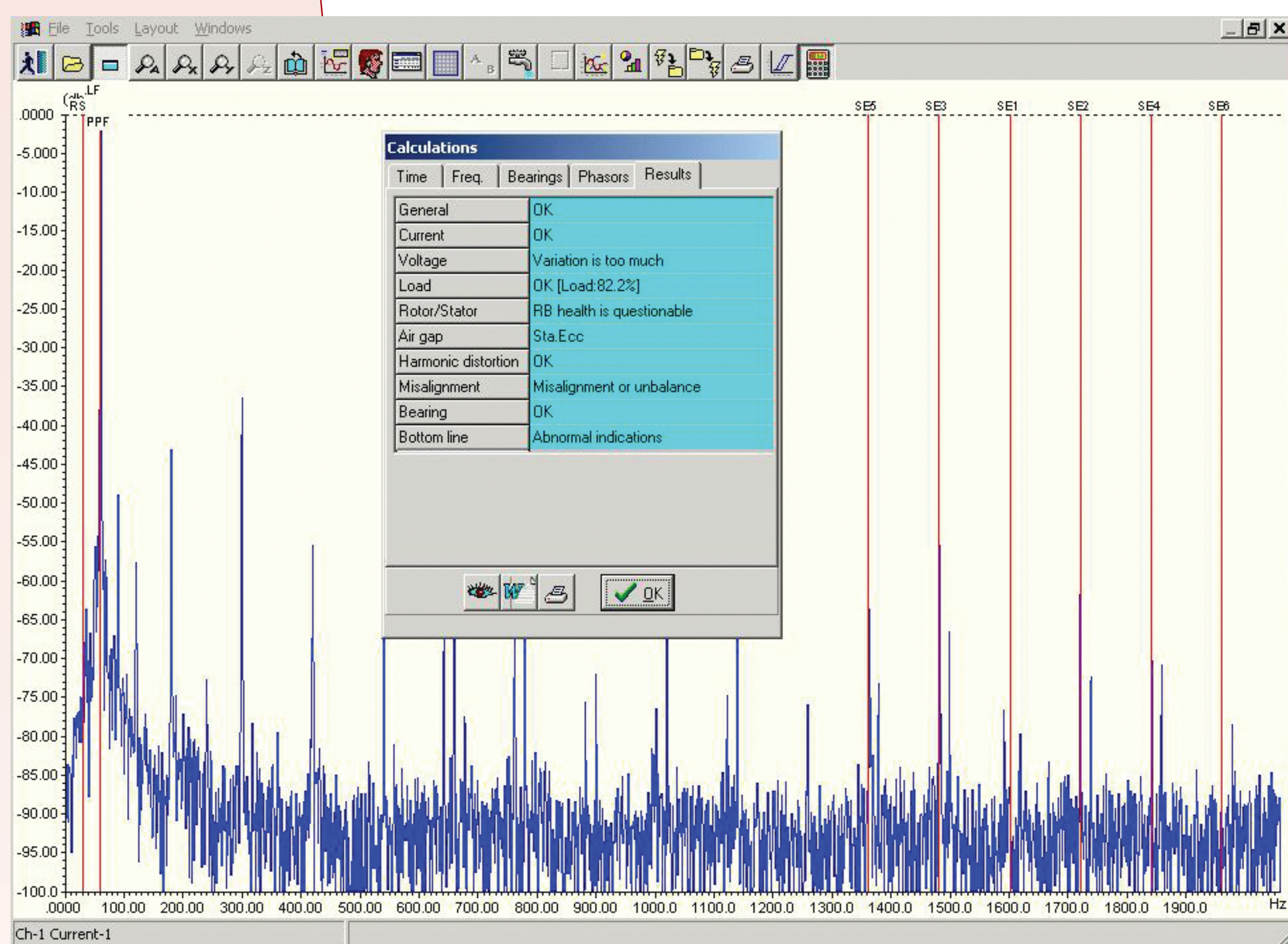


## The EMPATH System Indicates:

- > Rotor Bar Deterioration and Severity Level
- > Rotor Static & Dynamic Eccentricity
- > Stator Electrical & Mechanical Health
- > Motor Speed & Slip
- > Gear & Belt Imperfections
- > Average Running Current, and Indicator of Motor Torque
- > Stroke Time on Assemblies with Defined Start & Stop Points
- > Torsional Vibration & Dynamic Loading
- > Misalignment, Mechanical Unbalance
- > Bearing Defects

## Benefits

- > Detects the Early Stages of Rotor Bar Failures in Induction Motors
- > Saves Time and Precludes Plant Walk-downs by Monitoring Plant Motors and Driven Machinery from a Central Motor Control Center
- > Permits Data Acquisition and Analysis from Multiple Sources
  - Accelerometers
  - Proximity Probes
  - Process Measurements
  - AC Induction Motors
  - DC Motors
  - Generators & Transformers



Within AREVA, services operations are handled by Framatome ANP, an AREVA and Siemens company.