

## Voltage Quality/Harmonic Symptoms

Facility Issues	Yes/No
Switching of inductive loads on/off (i.e., motors, ballasts, relays, etc.)	
Operating UPS in the areas?	
Starting of large loads - inrush current?	
Overloaded wiring or incorrect breaker rating?	
Insulation breakdown?	
Unbalanced phase loading?	
Power Factor Correction Capacitors Used?	
Electric Utility System Issues	
Cap. Bank or feeder switching?	
Fault clearing?	
Incorrect XFMR tap setting?	
Low feeder voltage?	
Incoming Feeder Connections Checked?	
Harmonics	
Large Rectifiers Used (DC Power Plant)?	
Adjustable Speed Drives?	
Large UPS Systems?	
Arc Furnaces or Welders on-site?	
Are XFMRs hot to the touch?	
Nuisance tripping of breakers?	
High harmonic current measured?	
Thermal heat signatures available?	