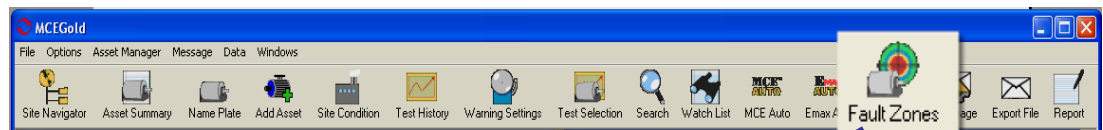
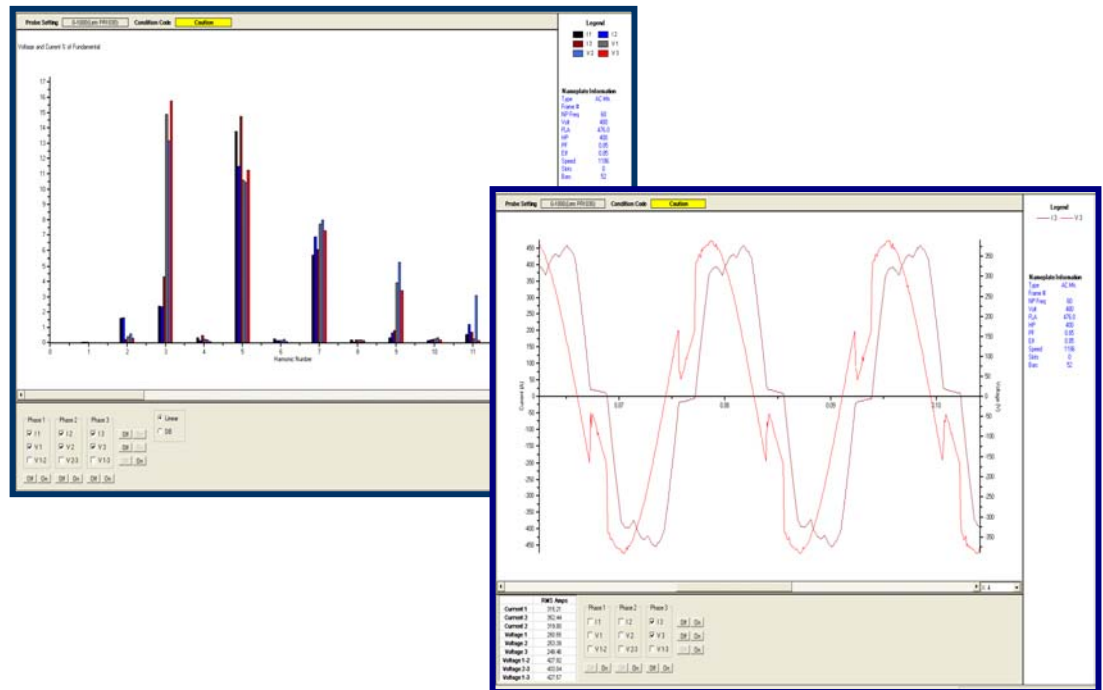




# Fault Zone – Power Quality

The Power Quality fault zone focuses on the condition of the voltage and current in a motor's branch circuit. Poor power quality can greatly affect the operation and health of an electric motor. During operation several stresses are brought to bear upon key components of the motor. Variances or distortions in the voltage powering a motor results in increasing both thermal and electrical stresses to the stator windings and in some cases components of the rotor.

MCEMAX powered by MCEGold™ provides you many ways to analyze and evaluate your power quality. MCEGold not only provides you with a snapshot of your power quality, it also allows you to evaluate the individual voltage and current harmonics out to the 50<sup>th</sup> harmonic.



Fault Zone	Test Type	Value	Date	Condition Code
Power Circuit	Voltage Imbalance (%)	0.38	4/22/1999 12:33:01 PM	Good
	Positive Imbalance (%)	Not Tested		
Power Quality	Voltage THD Ph-Ph (%)	5.87	4/22/1999 12:33:01 PM	Severe
	Current THD (%)	33.75	4/22/1999 12:33:01 PM	
Insulation	RTG (Meg)	Not Tested		Not Tested
	PI	Not Tested		Not Tested
Stator	CTG (gF)	Not Tested		Not Tested
	Imp. Imbalance (%)	5.73	4/22/1999 12:33:01 PM	Good
Rotor	Inductive Imbalance (%)	Not Tested		Not Tested
	Fp Amplitude (Delta dB)	Not Tested		Not Tested
Air Gap	Eccentricity	Not Tested		Not Tested
	Peak One (Delta dB)	Not Tested		Not Tested
	Peak Two (Delta dB)	Not Tested		Not Tested
	Peak Three (Delta dB)	Not Tested		Not Tested
	Peak Four (Delta dB)	Not Tested		Not Tested
RIC (Eccentricity)	Not Tested		Not Tested	

The MCEMAX powered by MCEGold provides a Fault Zone Report, which is a one-page summary of the test results relevant to the six fault zones. The Fault Zone Report may be reached directly through the Fault Zones icon on the toolbar.