



HARMONICS AND IT'S CAUSE AND EFFECTS

- Harmonics are distorted electrical waveforms that introduce inefficiencies into electrical system.
- They produce wasteful heat and can cause plant issues and fees from your local power company.

WHAT CAUSES HARMONICS

- Harmonics are the result of nonlinear load that convert AC line voltage to DC.
- Harmonics flow into the electrical system because of nonlinear electronic switching devices.
- Such as variable frequency drives (VFDs), computer, power supplies and energy efficient lighting.
- Series and Parallel Resonance.

TYPES OF HARMONICS

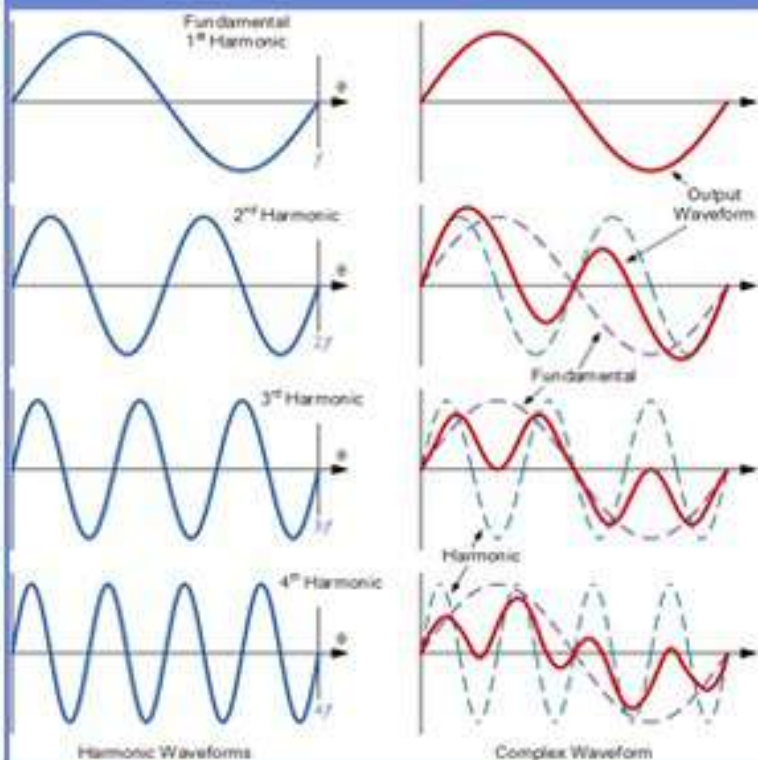
- Current harmonics cause unwanted current & overheating.
- Voltage harmonic cause misoperation of equipment.

EFFECTS

- Overheating (motors, transformers, cables, neutrals).
- Motor Vibrations.
- Nuisance Circuit Breaker Operations.
- Electrical Fires.
- LED Lights Flickering.

SOLUTIONS PROVIDED BY APCS

Proper Selection of Harmonic Filtration System and other supporting equipments will be done based on the applications and Power Analysis at the particular Site.



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