

SECTION 12 Disturbances

12 – 1 General Information

The operation of large flashing signs, welders, arc furnaces, dielectric and induction heaters, inverters, variable voltage and frequency devices, radio and television transmitters, X-ray equipment, reciprocation compressors, and similar apparatus having intermittent flow of large current sometimes interferes with other users of the electric service. The customer must consult the company in each case before planning to use such equipment so that the character of electric service that will be supplied, the corrective equipment needed, and other special precautions that must be taken will be mutually known. The company reserves the right to discontinue service where equipment used by the customer results in objectionable effects.

12 – 2 Customer-Owned Electric Sources and Standby Generators

These items can sometimes cause disturbances to other customers. The customer must consult with the company before installation (see Section 14 of this booklet).

12 – 3 Carrier Current Systems

Where building wiring is used for a carrier current system for communication, remote control, signaling, etc., the customer must install suitable filter equipment to prevent any carrier current interface from entering the company's lines (service facilities).

12 – 4 Harmonics

Certain devices installed by the customer such as SCR controllers, large rectifiers, inverters, variable voltage and frequency devices, etc., may cause harmonic waveform distortion. Harmonic distortion must be in compliance with ANSI standards. Devices installed by the customer must not injuriously affect the company's equipment or its service to others.

The company will endeavor to maintain reasonable limits on the harmonic distortion levels present on its system through proper design and application of related equipment, yet the company cannot guarantee an essentially distortion-free waveform. Those customers whose particular service requirements necessitate such a waveform are encouraged to install, own, and maintain signal conditioning equipment.