

# Section 5: Utilization Equipment

## GENERAL

When Member owned equipment could or actually does interfere with the operation of any components of NHEC's electric system or the electric supply to others, NHEC reserves the right to refuse service or to disconnect their supply upon proper notice. Such instances include, but are not limited to, harmonic distortion, voltage fluctuations, and unacceptable transformer and capacitor installations.

Members must consult with NHEC in advance of making any commitments for large motors, welders, X-ray machines, or other equipment which may have a high instantaneous electric demand. NHEC will determine the effect such installations have on NHEC's system. Should NHEC determine that the installation is likely to cause interference with the electric system or the electric supply to others, NHEC may refuse to connect service, discontinue service, or require the Member to make modifications to their system. It is the Member's responsibility to determine and correct the problems such equipment may have on their own system.

## MOTOR INSTALLATIONS

The Member should ascertain from NHEC the character of service for the proposed location and application before purchasing motors and motor driven equipment. In general, motors of 3 hp. or less will be supplied from single phase services, and motors larger than 3 hp. will be supplied from three phase services.

The electrical limitations of the supply circuits may, in some cases, make it necessary to limit the size of the largest motor to be operated on any given part of NHEC's system. Written information as to such limitations is available upon inquiry to NHEC.

## NOTICE OF CHANGE IN LOAD

If you are adding significant equipment or load you must notify NHEC to ensure this additional load will not adversely affect NHEC's system or other Members. Significant equipment on a small single-phase service would include but is not limited to such equipment as a welder or five horsepower motor. Significant equipment on the larger services would be anything that increases load by 10%, and must have Engineering pre-approval.

- Under certain conditions where the quality of service to others is not impaired, NHEC may authorize the use of single phase motors larger than 3 hp. Approval to install larger motors must be in writing.
- All motors should be equipped with suitable protective devices, to protect from the following conditions.
  - Overloads
  - Voltage and frequency variations
  - Single phase operation of polyphase motors
  - Reversal of rotation in polyphase motors
- NHEC will not be responsible for damage caused to Member owned equipment where such damage is caused by the absence, failure, or misapplication of any Member owned protective device.
- NHEC will not be held responsible for damage caused by lightning or other acts of nature

## VOLTAGE SENSITIVE EQUIPMENT

Members owning or planning to purchase computer, reproduction, X-ray equipment or other voltage sensitive equipment, should consult the manufacturer of their equipment, and install suitable devices on their system to protect against power system transients and/or loss of voltage.