

MOON LAKE ELECTRIC ASSOCIATION, INC.
Electric Service
Regulation No. 6

VI - CONSUMER'S INSTALLATION

1. Consumer's Facilities for Receiving Service

- A. All conductors and equipment including meter bases, etc. (except Association's meters and accessories) on the Consumer's side of the Point of Delivery must be installed and maintained at the expense of the Consumer. All conductor, apparatus and equipment shall comply with the Association's specifications for electric service and meter installations which are on file at any Association office and is made a part of these Regulations by reference. Consumer's facilities and installation shall comply with the standards of the National Electrical Safety Code issued by the National Bureau of Standards and the National Electrical Code of the National Fire Protection Association, and with regulations of any governmental authority having jurisdiction.
- B. Consumer shall not employ or utilize any equipment, appliance, or device so as to adversely affect, the Association's service to consumer or other consumers. Appropriate starting devices for motors shall be installed.
- C. A consumer utilizing single-phase service at a Point of Delivery whose service entrance equipment does not exceed 400 amperes will be metered with a self-contained Class 200 or Class 320 meter. A consumer requiring single phase service of greater than 400 amperes and not more than 600 amperes will be instrument metered using current transformers per Association specifications.
- D. A consumer requiring service greater than 600 amperes single-phase will be studied on a case-by-case basis and may be required to take three-phase service and reasonable balance the load on all phases.
- E. A consumer receiving three-phase service of 200 amperes or less will be metered with standard self-contained metering. Consumers receiving three-phase service exceeding 200 amperes will require instrument metering per Association specifications.
- F. The consumer shall so arrange his load that there will be a reasonable electric load balance at the Point of Delivery between the phases of a polyphase circuit and between the two sides of a single phase three-wire circuit.

2. Service Entrances and Connections

- A. The Consumer shall provide a suitable service entrance to the premises to be served at the point acceptable to the Association. Such entrance facilities shall meet the requirements of the authority enforcing the local electrical code or ordinance, if any. The Consumer shall provide a structurally sound point of attachment or support for the Association's service conductors which will permit the clearances required by law.

3. Power Factor

- A. The power factor calculation shall be made by determining the average monthly power

MOON LAKE ELECTRIC ASSOCIATION, INC.
Electric Service
Regulation No. 6

factor from monthly KVAR hours and kW hours as metered.

4. Highly Fluctuating Loads

- A. If Consumer uses equipment with highly fluctuating load characteristics, or having an abnormal effect on voltage, and whose operation requires the Association to install facilities in order to protect the quality of service to other Consumers or to provide for short period use of power by such equipment, the Association may provide a separate service connection and supply service thereto under the applicable schedule and Extension Policy, Regulation No. 17.
- B. The Association reserves the right to refuse to supply service to loads of a character which may seriously impair service to any Consumer and shall have the right to discontinue service to the Consumer who shall continue to use appliances or apparatus detrimental to the service to any consumer after being notified thereof in writing by the Association.

5. Changes in Installation

- A. Company's wires, transformers, meters and other facilities used in supplying service to Consumer have a definite limited capacity. Consumer shall therefore give notice to the Association and obtain Association's consent before making any material changes or increases in Consumer's installation. Association will promptly give its approval to the proposed change or increase, or will advise Consumer upon what conditions service can be supplied for such change or increase.

6. Inspection by Association

- A. The Association shall have the right, but does not assume the duty, to inspect Consumer's installation at any reasonable time and to refuse to commence or to continue service whenever it does not consider such installation to be in good operating condition, but no inspection by the Association, nor the failure by it to object to the Consumer's installation shall render the Association in any way liable for any injury or damage resulting from any defective installation of the Consumer.

7. Consumer's Responsibility

- A. Nothing in these Electric Service Regulations shall be construed as placing upon the Association any responsibility for the condition or maintenance of the Consumer's wiring, current consuming devices or other equipment, and the Association shall not be held liable for any loss or damage resulting from defects in the Consumer's installation and shall not be held liable for damage to persons or property arising from the use of the service on the premises of the Consumer

8. Harmonic Distortion

MOON LAKE ELECTRIC ASSOCIATION, INC.

Electric Service
Regulation No. 6

- A. The allowable harmonic distortion current caused by any individual consumer as measured at the consumer's respective Point of Delivery shall meet two (2) tests as follows:
1. The allowable total harmonic distortion current shall not exceed 10% of the fundamental frequency current.
 2. For any specific harmonic order (multiple of the fundamental frequency), the harmonic distortion current as a percentage of the fundamental frequency current multiplied by the harmonic order shall not exceed 10%. Example: If the harmonic distortion current for the 5th order harmonic is measured at 1.2% of the fundamental frequency current, the harmonic distortion calculation for the harmonic order is 1.2% times 5 (for the 5th harmonic) or 6%. Since the 6% amount does not exceed 10%, it is allowable.
- B. When problems are brought to the attention of the Association, the Association will measure the total and individual order harmonic distortion currents, and will share such information obtained with the consumer. The probable source of such problems will also be determined where possible.
- C. Consumers needing to take corrective actions to eliminate excessive harmonics and their effect on other consumers shall be notified of such need in writing, and shall be given ninety (90) days following notification to make corrections which eliminate problems. If the offending consumer does not eliminate problems within ninety (90) days following notification, the Association shall, at its sole option, take corrective actions and bill consumer for expenses of such corrective actions or may disconnect service.