# Section XII. Special Provisions and Special Equipment

### 1. Customer Installed Capacitors.

Customers installing capacitors to improve the power factor of their load should contact the Company for advice regarding supply system characteristics and essential coordination details.

## 2. Electric Fences.

CAUTION! Due to the problems involved in the operation of electric fences, the Company urges extreme care in selection of the electric fence system and close adherence to the standard for electric fence controllers, ANSI/UL 69. A direct electrical connection to a fence, or a connection through resistance, reactance or lamp bulb, without an approved controller is not permitted. For guidance in methods, materials and equipment to construct electric fences, those interested are referred to qualified experts such as your County Cooperative Extension agent, your local NYSEG Agricultural Representative, or the Department of Agricultural Engineering, Cornell University, Ithaca, New York.

#### 3. Swimming Pools.

Swimming pools shall be properly wired in accordance with the National Electrical Code. Circuits serving pools or associated areas shall be protected by Ground Fault interrupters (see Figure 31, for Swimming Pool Clearance specifications).

## IMPROPERLY WIRED SWIMMING POOLS ARE HAZARDOUS

## 4. Lightning or Surge Protection Systems.

The Company recommends the use of secondary surge arresters for protection of customer's equipment, where such additional protection is desired. Arresters shall be connected on the load side of the main disconnect, not at the weatherhead.

Lightning rod systems, if desired, should be installed per NFPA 78 "Lightning Protection Code." A bond between the lightning rod system down ground and the service neutral should not be installed. Refer to National Electric Code Section 250-46 for spacing requirements. Spacing should be so arranged so that the meter enclosure is not bonded to the lightning rod system down ground conductors.

## 5. Transient Surge Protectors.

Transient surge protectors are available through distributors to help protect particularly sensitive customer equipment from low energy transient surges.