

# NORTH MARIN WATER DISTRICT

## REGULATION 11

### LOW-PRESSURE SERVICE

a. Low-Pressure Service

Water service to land where the building pad elevation receiving said service or the meter serving said property has pressure less than 40 psi as solely determined by the District is designated "low-pressure service" and will be furnished only in accordance with this regulation.

b. Condition of Service

Low-pressure service shall be furnished only if all the following conditions are met:

- (1) The Applicant applies for low-pressure service and enters into a recordable agreement running with the land to be served agreeing to accept service at such low pressure as the District is able to provide, releasing the District from any liability from lower pressure water service and from all responsibility to provide water service at normal pressure, and agreeing to maintain in good and sanitary condition and repair without cost to the District the pumping and storage facilities required by Section c. hereof.
- (2) The District determines that it is feasible to serve the Applicant's land from existing District facilities in the vicinity thereof. In determining such feasibility the District shall take into consideration the amount and elevation of water storage available and whether a sufficient quantity of water can be furnished to said land.
- (3) The District determines that installation of a standard gravity-type distribution system to provide water to said land under adequate pressure is not presently feasible and will not be feasible within a reasonable period of time.
- (4) The meter for the service is located at an elevation which the District determines will result in an adequate supply of water at normal pressure under normal operating conditions.
- (5) The Applicant's service line from the meter is not less than one-inch inside diameter.
- (6) The Applicant delivers to the District for its review and approval plans and specifications for the pumping and storage facilities required by Section c. hereof.
- (7) The pumping and storage facilities required by Section c. hereof are installed without cost to the District and there is delivered to the District written certification by a licensed plumber, registered engineer or pump manufacturer recognized by the District that said facilities comply with Section c. hereof.

c. Pumping and Storage Facilities

- (1) The Applicant for low-pressure service shall cause to be installed on the Applicant's side of the water meter, a pump, storage tank and related piping which shall be adequate to supply to the land water for fire protection either through residential sprinklers or supplemental on-site storage, or both, and which shall not create a negative suction pressure.
- (2) The pump shall:
  - (i) be a centrifugal type;
  - (ii) have a motor not less than one horsepower;
  - (iii) have a capacity of not less than 50 gallons per minute;

- (iv) be capable of maintaining a pressure of 20 pounds per square inch (psi) or the required pressure for proposed sprinkler operation, whichever is greater, at the highest point of use within the customer's system when supplying water at the maximum use rate;
  - (v) have electrical power supplied via a circuit separate from that connected to dwelling units or structures to prevent interruption of power to the pump in the event of a fire; and
  - (vi) be protected against damage to the pump or motor by a low-pressure cutoff switch which interrupts power to the pump when the suction water pressure to the pump drops to 5 psi or less.
- (3) The hydro pneumatic storage tank shall:
- (i) have a nominal capacity of not less than 180 gallons, except where the Applicant is required to provide storage as described in Section c. (4) hereof, this capacity may be reduced;
  - (ii) have a minimum working pressure equal to 75 psi and a minimum hydrostatic test pressure of 150 psi;
  - (iii) be equipped with a pressure-relief valve set to release pressures in excess of safe design limits and having a release capacity equal to the maximum pumping rate.
- (4) If the low pressure service is located within a State Responsibility Area for fire protection purposes, and/or the District determines that adequate and reliable water service for fire-fighting is not available to the land, a storage tank shall be provided and sized to meet the requirements of the State of California Public Resources Code, Section 4290, and have a capacity of not less than 3,000 gallons with a valved fire department connection meeting the requirements of the responsible fire department; and the pump shall be as described in Section c. (2) hereof.