

LAKEHAVEN UTILITY DISTRICT
King County, Washington

Resolution No. 2001-935

A resolution of the Board of Commissioners of Lakehaven Utility District, King County, Washington, adopting minimum and maximum pressure standards for operation of the public water system.

WHEREAS, the District operates a public water supply system pursuant to authority granted by state law, and

WHEREAS, due primarily to variations in property elevations within the service area, significant water pressure deviations occur throughout the water distribution system, and

WHEREAS, in order to address the differing conditions of water pressure on both the low and high pressure ranges, the Board desires to establish water system parameters relating to such variations, and

WHEREAS, having reviewed the matter and believing the terms of the policy set forth herein to be in the best interests of the District and its customers,

NOW THEREFORE, **BE IT RESOLVED** as follows:

1. The following shall constitute the water pressure parameters governing the development and operation of the public water system:
 - A. Improvements to the water system must be able to provide Peak Hourly Demands at no less than 30 pounds per square inch (psi) to all service connections throughout the distribution system (as measured at all existing and proposed service water meters or along property lines adjacent to the mains if no meter exists), except during fire flow conditions. The pressure estimate will be based on the elevation of the meter and the highest total dynamic head of the serving system, less 5 feet of system losses and less an additional 15 ft for tank operation, where appropriate. To address fire suppression events, the system must be able to provide 20 psi minimum pressure at ground level at all points along the pipeline throughout the distribution system under fire flow conditions plus the Maximum Day Demand rate. Transmission mains with no service connections must be designed to maintain greater than or equal to 5 psi except when directly adjacent to storage tanks.
 - B. The desirable pressures within any point of the water distribution system under Maximum Day Demand conditions should range between 40 - 80 psi.

For new services that are estimated to have less than 40 psi of pressure, the District will require a Low Pressure Service Agreement to be executed as a condition of service. The pressure estimate will be based on the elevation of the meter and the highest total dynamic head of the serving system, less 5 feet of system losses and less an additional 15 feet for tank operation, where appropriate.

- C. The Low Pressure Service Agreement shall recommend that individual booster pump systems be installed on the customer's plumbing system, including provisions for cross connection control. This Agreement between the District and the owner of the property served shall be executed and recorded against said property, acknowledging the marginal water pressure condition and other relevant matters.
 - D. Individual pressure reducing valves shall be installed on the customer's plumbing system where the static pressure (estimated from the highest total dynamic head of the system) is anticipated to exceed 80 psi, or a lesser pressure as may be required by the local governmental agency having jurisdiction.
 - E. The maximum allowable pressure within any point of the water distribution system at a static flow condition (estimated from the highest total dynamic head of the system) shall not exceed 125 psi.
2. The Board of Commissioners reserves the right to modify the water pressure parameters set forth herein at any time and in any manner deemed beneficial to the operation of the public water supply system.
 3. This Resolution shall be effective on the date of adoption as set forth below.

ADOPTED by the Board of Commissioners of Lakehaven Utility District, King County, Washington, at an open public meeting this 8th day of FEBRUARY, 2001.

ATTEST:

Donald A. Miller ✓
 President and Commissioner Yea Nay Abstain

Thomas M. Gammack ✓
 Vice President and Commissioner Yea Nay Abstain

P. Smayer ✓
 Secretary and Commissioner Yea Nay Abstain

Beverly J. Tweddle ✓
Commissioner Yea Nay Abstain

Edward E. Stewart ✓
Commissioner Yea Nay Abstain

Approved as to form:

At A. P. P. P. P.
General Counsel