



**CITY OF NEWPORT BEACH**  
**COMMUNITY DEVELOPMENT DEPARTMENT**  
**LIFE SAFETY SERVICES**  
**GUIDELINES AND STANDARDS**

**STANDARD F.02 - Fire Sprinkler System Design Pressure**

**F.02.1 PURPOSE**

This standard was developed to assist the applicant with providing the correct available water flow information when submitting plans for fire sprinkler systems. This document sets forth the requirements for the design of fire sprinkler system demand.

**F.02.2 SCOPE**

This standard shall apply to all NFPA 13 and 13R fire sprinkler systems.

**F.02.3 PROCEDURE**

- Determination of water availability: Provide a copy of the fire hydrant flow test data from the local water purveyor. Water flow information shall be determined by the local water purveyor during peak demand hours and shall be less than 6 months old. For water flow testing, contact the Newport Beach Utilities Department at 949-718-3410 or the Irvine Ranch Water District at 949-453-5300. A copy of the flow data provided by the water purveyor shall be included with the fire sprinkler design calculations.
- The fire sprinkler system shall be designed to provide a margin for future loss by reducing both the static and residual design pressures by either of the following methods:
  1. 10% of the static pressure when the static pressure does not exceed 100 psi,

OR

- The percentage indicated by the Fire Sprinkler Water Availability Reduction Graph if the static pressure exceeds 100 psi.

### Fire Sprinkler Water Availability Reduction Graph

