

MANHEIM TOWNSHIP ADMINISTRATIVE ORDER # 2019-5

Fire Sprinkler System Flow Capacity for Commercial Fire Sprinkler System Designs

1) Purpose:

The purpose of this Administrative Order is to provide fire sprinkler system design parameters with respect to residual pressure (psig) and fire flow (gpm). Reductions in peak demand values are permitted per the requirements listed in this Order.

2) Justification:

City of Lancaster's Commercial Water and Fire Flow Capacity approvals are based on worst case Peak Hour/Maximum Day Demand values. Design value allowances between Low Demand / Normal Work Day and Peak Hour / Maximum Day Demand are justified because:

1. Most fires are controlled with the activation of several heads, not all of those in the highest demand area used for system design and;
2. That fire sprinkler systems are supplemented with fire apparatus attached to the building fire sprinkler system through fire department connections and;
3. Fire sprinkler systems are required by Manheim Township Ordinance to be protected by a listed, monitored fire alarm system providing central station service.

3) Requirements:

1. Obtain project specific Commercial Water and Fire Flow Capacity letter from the City of Lancaster Department of Public Works. Capacity letters are valid for one year from date of issuance.
2. It is permissible to use a flow curve half way between the Low Demand/Normal Day and the Peak Hour/Max Day Demand of the project specific capacity letter flow curve.
 - a. **Exception #1:** All High Hazard Group H Occupancies
 - b. **Exception #2:** All Institutional Group I Occupancies
 - c. **Exception #3:** Any S-1 High piled storage Occupancy
 - d. All the noted exceptions are to follow the Peak Hour/Max Day Demand curve

Issued By:



Andrew S. Bowman, Director of Code Compliance

Effective Date: 12-26-19