

## **4.25 Car Stacking/Lift Systems (2016)**

**Reference:** NFPA 13 Section 5.4.2, A5.4.2(9), & 11.1.2(1); SFBC/SFFC §§903.3.1.1 & 903.3.5.2.

**Purpose:** Provide additional SFFD guidelines for sprinkler protection of car stackers not specifically addressed in NFPA 13.

Parking garage areas containing car stackers shall be protected by an automatic wet-pipe sprinkler system designed to Extra Hazard (Group 2). In addition, non-extended coverage standard sidewall sprinklers listed for Ordinary Hazard (Group 1) shall be acceptable for use under each parking level, including the bottom level if the stacker is provided with a pit. Each sidewall sprinkler shall cover an area of 80 sq. ft or less.

For low-rise building, if the city main cannot provide the required flow at 20 psi, a primary water supply tank and fire pump must be provided. The capacity of the tank shall meet the above requirements and the requirements in the currently adopted editions of NFPA 13 and 14.