



FIRE PREVENTION MANUAL
FIRE EXTINGUISHING SYSTEMS
405.036 NON-HIGH RISE STANDPIPE
REQUIREMENTS
EFFECTIVE: AUGUST 2005

SCOPE

This policy clarifies the Fresno Fire Department's (FFD or Department) requirements related to the installation of non-high rise building standpipes within the City of Fresno and contract service areas. These requirements apply to both required and voluntary systems.

PURPOSE

This policy has been established to provide direction for the installation of standpipes for non-high rise buildings within the City of Fresno and contract service areas.

BACKGROUND

As noted in the *California Fire Code (CFC)*, the fire code official has the authority to formulate policies they deem necessary based upon local conditions related to standpipe installations.

The Department has concluded that in addition to the *California Building Code (CBC)* or *CFC* requirements for standpipes, additional requirements are necessary for the safety of firefighters performing fire suppression within these buildings.

REQUIREMENTS

Based upon the need for uniformity in application across the Department's diverse service delivery area, and after careful deliberation, the Department has determined the following:

1. Standpipe hydraulic calculations shall be calculated as follows:
 - A. Calculations must use FFD fire engine pump for hydraulic calculations as an installed fire pump will shut off when FFD is pumping into the system. FFD fire engine pump curve is 1000 gpm at 150 psi.
 - B. Calculations shall originate at the fire department connection with FFD

pump data. The remaining portion of the calculations shall be in accordance with the currently adopted version of *National Fire Protection Association Standard 14 - Installation of Standpipes and Hose Systems*.

2. Standpipe plans shall have the required class of standpipe noted on the plans.
3. Standpipe plans shall have the method (automatic or manual) noted on the plans.
4. Standpipe plans shall have the type of standpipe (wet or dry) noted on the plans.
5. The roof of the standpipe equipped building shall have each standpipe extended to the roof. The most remote standpipe shall be equipped with two, 2½ inch hose valves for standpipe testing.
6. Provide at least one hose valve installation detail on the plans. If using pressure reducing hose valves, a drawing must be provided for the pressure reducing hose valve and one for a non-pressure reducing hose valve (if installed).
7. Hose valves must be in-line hose valves and a check valve and gauge must be installed before the hose valve. No angle valves are permitted.
8. Hose valves installed in stairwells shall have the hose valve installed on the floor level stair landing.
9. In every case, the Fire Marshal (or designee) has the authority to modify these requirements and the determination shall be made at the sole discretion of the Fire Marshal (or designee).

CROSS REFERENCES

California Building Code

California Fire Code

National Fire Protection Association Standard 14

Installation of Standpipes and Hose Systems.