SANTA CLARA FIRE DEPARTMENT

FIRE AND LIFE SAFETY STANDARD #1 FIRE PROTECTION EQUIPMENT AND SYSTEMS

SCOPE. The Santa Clara Fire Department Fire and Life Safety Standard #1, Fire

Protection Equipment and Systems is a compilation of recognized standards of good practice for the installation and maintenance of fire

protection equipment and systems.

PURPOSE. The purpose of this standard is to provide a reasonable degree of

protection from fire through the standardization of design, installation, and

maintenance of fire protection systems and equipment.

SECTION 407 – HAZARD COMMUNICATION

S407.1.1 EMERGENCY PLAN AND HAZARDOUS MATERIAL BUSINESS PLAN

CABINETS. In large commercial, industrial or residential complexes, the Chief may require the Emergency Plan and/or the Hazardous Materials Business Plan to be locked in approved cabinets in approved locations that are accessible to the Fire Department in the event of an emergency.

SECTION 508 – FIRE PROTECTION WATER SUPPLIES

S508.1 FIRE HYDRANTS. Fire hydrants are to have two-2½ inch outlets and one-4 inch pumper connection such as the Clow 860 or Long Beach 430. Fire hydrants shall be accessible to the fire department apparatus by roads meeting the requirements of Section 503 of the International Fire Code.

For fire safety during construction, alteration or demolition of a building, see Chapter 14 of the International Fire Code.

S508.2 PAINTING OF PRIVATE HYDRANTS. Private on-site hydrants shall be painted safety yellow or equivalent.

S508.3 DEAD END WATER MAINS PROHIBITED. Fire protection facilities for high-rise buildings shall not be served by dead end water mains. Any development providing any combination of six (6) or more fire hydrants, fire sprinkler or standpipe services, shall not be served by a dead end water main. Private water systems serving the above shall have at least one sectional control valve. The Chief may require additional sectional control valves. In private underground piping systems, any dead end pipe, which supplies both sprinklers and hydrants, shall be not less than eight (8) inches in diameter.

509 – FIRE COMMAND CENTERS

S509.1 FIRE COMMAND CENTERS IN HIGH-RISE STRUCTURES EQUIPMENT AND FURNITURE. The equipment and furnishings listed below shall be installed in Central Control Stations for the exclusive use of fire department personnel. The Chief may require additional equipment and furnishings or replacement of items that are unreliable or obsolete.

- A. All items listed in Sec. 509.1 of the California Fire Code.
- B. A table with chairs (size and number of chairs to be determined by the Chief).
- C. A locking key box, acceptable to the Chief, large enough for 10 sets of master keys.
- D. Ten (10) sets of master keys for the building.
- E. A complete set of electrical, mechanical, and plumbing plans for the building.

<u>SECTION 903 – AUTOMATIC SPRINKLER SYSTEMS</u>

S903.1 BUILDINGS OF UNDETERMINED USE. When fire sprinklers are required in buildings of undetermined use, they shall be designed and installed to have a sprinkler density of not less than that required for an Ordinary Hazard Group 2 use with a minimum design area of 3,000 square feet (279 m²).

Use is considered undetermined if not specified at the time the permit is issued.

Where a subsequent occupancy requires a system with a greater capability, it shall be the responsibility of the occupant to upgrade the system to the required density for the new occupancy.

S903.2 ATTIC PROTECTION FOR RESIDENTIAL SPRINKLER SYSTEMS. A minimum of one sprinkler head shall be installed in the attic space for any residential occupancy, which a NFPA 13D or NFPA 13R sprinkler system is installed. Depending on the size and configuration of the attic space additional sprinkler heads may be required to be installed.

SECTION 905 – STANDPIPES

S905.1 STANDPIPES. Regardless of other requirements or definitions, all standpipe systems shall be wet.

S905.2 STANDPIPE OUTLETS. Standpipe outlets shall be located not less than two (2) feet nor more than five (5) feet above floor or grade level.

SECTION 906 -- PORTABLE FIRE EXTINGUISHERS

S906.1 GENERAL. Portable fire extinguishers shall be installed according to the Table 906.1 A. Servicing of fire extinguishers shall be required on an annual basis. The Chief may require additional extinguishers and other ratings for protection of special hazards or hazard areas if, in his opinion, the additional requirements are better suited to protect such hazard. Portable fire extinguishers shall be in accordance with NFPA 10.

TABLE 906.1 A - FIRE EXTINGUISHER SIZE AND PLACEMENT

Occupancy Hazard Classification	Light (Low)	Ordinary (Moderate)	Extra (High)
Descriptions	Offices Classrooms Churches Assembly Halls	Dining Areas Mercantile Shops Lt. Manufacturing Auto Showrooms Parking Garages	Woodworking Vehicle Repair Cooking Areas Hazardous- Occupancies
Minimum Extinguisher Rating	2A:10B:C	2A:20B:C	4A:80B:C
Maximum Floor Area per Extinguisher	3,000 sq. ft.	1,500 sq. ft.	1,000 sq. ft.
Maximum Travel Distance to Extinguisher	50 ft.	50 ft.	50 ft.