



Fire Suppression Services Incorporated

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Fire Protection System Signage FACP and Sprinkler Zone Map Requirements

Purpose

To establish a procedure governing the uniformity of Fire Protection System Signage along with fire alarm system and sprinkler system zone maps. The purpose of these zone maps is to enable responding emergency personnel to identify the location of the emergency quickly and accurately and to indicate the status of emergency equipment or fire safety functions

Scope

To provide our customers a single point of reference for required signage related to fire protection systems and related equipment. This guide was established to ensure consistent zone maps from each fire alarm and sprinkler contractor and expedite emergency personnel operations.

References

State of Utah Fire & Electrical Codes

§F510.1 Identification. Fire protection equipment shall be identified in an approved manner. Rooms containing controls for air-conditioning systems, sprinkler risers and valves, or other fire detection, suppression or control elements shall be identified for the use of the fire department. Approved signs required to identify fire protection equipment and equipment location, shall be constructed of durable materials, permanently installed and readily visible.

§F605.3.1 Labeling. Doors into electrical control panel rooms shall be marked with a plainly visible and legible sign stating ELECTRICAL ROOM or similar approved wording. The disconnecting means for each service, feeder or branch circuit originating on a switchboard or panelboard shall be legibly and durably marked to indicate its purpose unless such purpose is clearly evident.

Requirements

A fire alarm/sprinkler zone map shall be provided next to the fire alarm control panel.

These map(s) shall show what areas of the building are covered by the system(s) installed.

Maps shall be accurate, legible and easily understood.

They shall be laminated and permanently attached to the wall in the FACP/Riser room.

When a building or system is modified, it is the responsibility of the contractor who made modifications to the system(s) to update these maps.

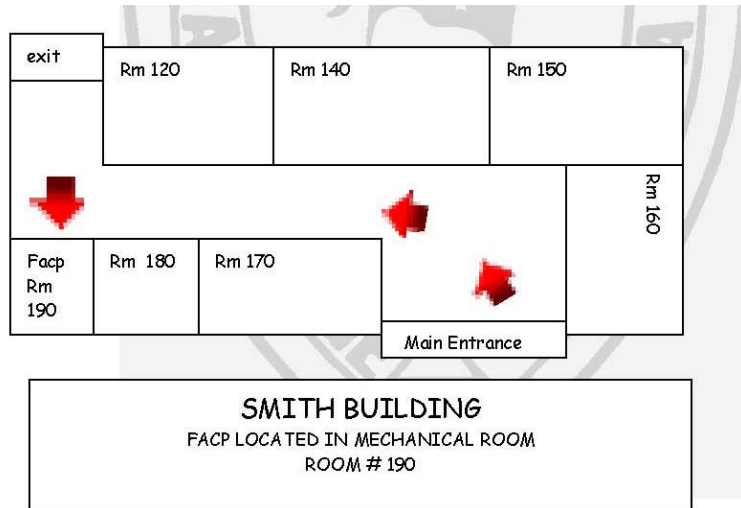
FACP/Riser Map Location and Requirements

A sign and/or map shall be mounted at the front main entrance indicating the location of the fire alarm control panel and fire sprinkler riser/control room location (if in a sprinklered building).

This sign shall be protected from damage/vandalism and shall be securely mounted and protected (e.g.- inside a certificate holder).

The sign shall state:

FACP located _____.



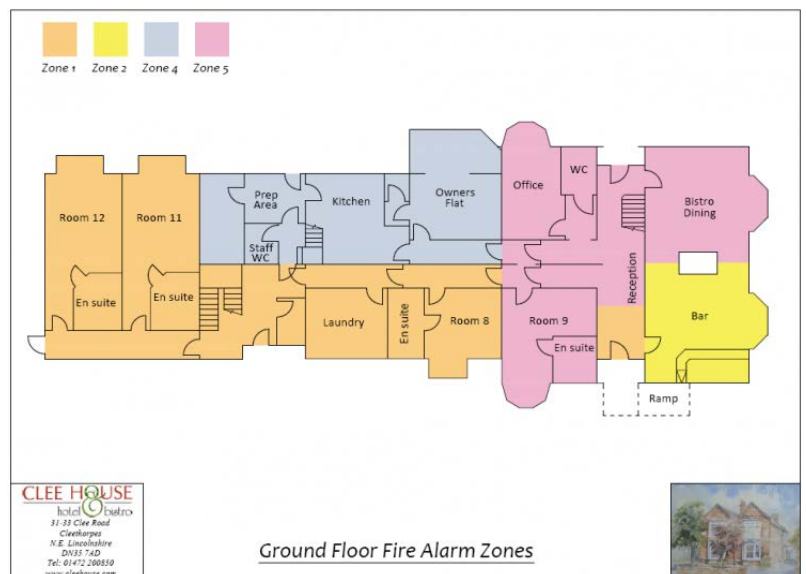
Example 1: Basement level, west wing, room 260.

Example 2: Main floor, room 100.

Example 3: Main level, mechanical room; in fire sprinklered buildings, the same applies for the sprinkler control location.

The maps shall include the following minimum items:

1. Building layout
2. Stairwell identification
3. Location of fire-rated walls and their ratings
4. Knox Box location(s)
5. Adjacent streets, with designators
6. North arrow
7. Legend of symbols
8. Date drawing was created
9. Location of all sprinkler zones
10. FACP
11. NAC panels
12. Standpipe outlets



13. Sprinkler control valves (Including PIV's and FDC's)
14. Water-flow alarm devices
15. Range hood suppression systems
16. Clean agent systems
17. Vesda systems
18. Addressable fire alarm system device ID's and/or area descriptions
19. Inspector's test valve(s)
20. Auxiliary drain(s)

Fire Alarm Control Panel



Rooms containing the "Fire Alarm Control Panel" shall be provided with signage in minimum 2" inch letter with a minimum ½" inch stroke.

The color of the letters shall be contrasting with respect to the background. The sign shall be provided on the door leading to the fire alarm control panel(s) unless otherwise approved by the Office of the Fire Marshal.

Fire Sprinkler Riser Room

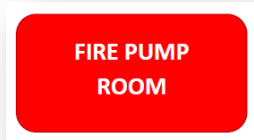


Rooms containing the "Fire Sprinkler Riser Room" or "Fire Sprinkler Control Valve" shall be provided with signage in minimum 2" inch letter with a minimum 3/8" inch stroke.



The color of the letters shall be contrasting with respect to the background. The sign shall be provided on the door leading to the fire sprinkler riser room or fire sprinkler control valve unless otherwise approved by the Office of the Fire Marshal.

Fire Pumps and Piping



Rooms containing "Fire Pump" shall be provided with signage in minimum 2" inch letter with a minimum 3/8" inch stroke.

The color of the letters shall be contrasting with respect to the background. The sign shall be provided on the door leading to the pump room unless otherwise approved by the Office of the Fire Marshal.

Fire Department Connections



"FIRE DEPARTMENT CONNECTION", "FIRE DEPARTMENT STANDPIPE", "FIRE PUMP TEST CONNECTION" signs shall be provided of a minimum dimension of 24" wide by 18 inches high.

Red letters on reflective white weatherproof contrasting background with 3/8 inch red trim strip around the Entire outer edge of sign.

Note: Where the Fire Department Connection does not serve the entire building, a sign shall be provided indicating the portion of the building service

Fire Sprinkler Calculation Plates

NFPA 13 Section 24.5.2

A red rectangular plate with white text and fields. The title is "HYDRAULIC-SYSTEM". Below it is the text "This Building is Protected by a Hydraulically Designed Automatic Sprinkler System". The form includes fields for "Location", "No. of Sprinklers", "Basis of Design" (with sub-fields for "1. Density" and "2. Designed area of Discharge"), "System Demand" (with sub-fields for "1. GPM Discharge", "2. Residual Pressure at the Base of the Riser", and "3. Hose Stream Allowance").

The installing contractor shall identify a hydraulically designed sprinkler system with a permanently marked weatherproof metal or rigid plastic sign secured with corrosion-resistant wire, chain, or other approved means.

Such signs shall be placed at the alarm valve, dry pipe valve, preaction valve, or deluge valve supplying the corresponding hydraulically designed area.

The sign shall include the following information:

- (1) Location of the design area or areas
- (2) Discharge densities over the design area or areas
- (3) Required flow and residual pressure demand at the base of the riser
- (4) Occupancy classification or commodity classification and maximum permitted storage height and configuration
- (5) Hose stream allowance included in addition to the sprinkler demand
- (6) The name of the installing contractor

Fire Sprinkler Control Valves



NFPA 13 Section 24.5.1

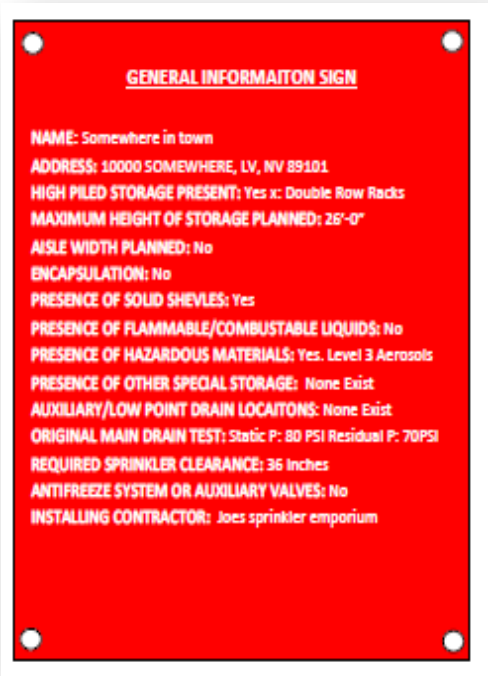
Signs are reflected shall be placed at each system control riser, antifreeze loop, and auxiliary system control valve, etc.

General Information Sign

The installing contractor shall provide a general information sign used to determine system design basis and information relevant to the inspection, testing, and maintenance requirements required by NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

Such general information shall be provided with a permanently marked weatherproof metal or rigid plastic sign, secured with corrosion-resistant wire, chain, or other acceptable means. Such signs shall be placed at each system control riser, antifreeze loop, and auxiliary system control valve.

NFPA 13 Section 24.6.2



The sign shall include the following information:

- 1) Name and location of the facility protected
- 2) Presence of high-piled and/or rack storage
- 3) Maximum height of storage planned
- 4) Aisle width planned
- 5) Commodity classification
- 6) Encapsulation of pallet loads
- 7) Presence of solid shelving
- 8) Flow test data
- 9) Presence of flammable/combustible liquids
- 10) Presence of hazardous materials
- 11) Presence of other special storage
- 12) Location of auxiliary drains and low point drains
- 13) Original results of main drain flow test
- 14) Name of installing contractor or designer
- 15) Indication of presence and location of antifreeze or other auxiliary systems

Stock of Spare Sprinklers

A supply of at least six spare sprinklers (never fewer than six) shall be maintained on the premises so that any sprinklers that have operated or been damaged in any way can be promptly replaced.

NFPA 13 Section 6.2.9.7 & 6.2.9.7.1*

Fire "B" Gone 1111 N Fire Sprinkler Way, LV NV 89101							
SIN #	Sprinkler Description	Orifice	Deflector	Temp	Pressure	Quantity	List Date
GL8106	GLOBE 8.1K QR REC	3/4	PEN	155	175	14	01-2012
TY9128	TYCO 25.2K SR EC	1"	UPR	155	175	120	01-2012
R7326	RELIABLE 11.2K SR EC	3/4	UPR	155	175	10	01-2012
V3607	VICTAULIC 8.0K SR DRY	1"	PEN	200	175	21	01-2012
FIRE PROTECTION SYSTEMS INC. 1234 HYDRO WAY LV,NV 89101							

A list of the sprinklers installed in the property shall be posted in the sprinkler cabinet.

The list shall include the following:

- (1) Sprinkler Identification Number (SIN) if equipped; or the manufacturer, model, orifice, deflector type, thermal sensitivity, and pressure rating
- (2) General description
- (3) Quantity of each type to be contained in the cabinet
- (4) Issue or revision date of the list

Electrical Control Panel Rooms



Doors into electrical control panel rooms shall be marked with a plainly visible and legible sign stating ELECTRICAL ROOM or similar approved wording.

