


<b><i>HEALTH AND SAFETY MANUAL</i></b>		
Title: Automatic Sprinklers		
Approved by: Greg Savoy		Rev. 1/1/08

1 Purpose/Scope:

The purpose of this program is to ensure automatic sprinklers are installed and maintained operational to protect employees and assets.

Applies to all Company facilities where sprinkler systems are installed.

2 Responsibilities:

2.1 Responsibilities:

2.1.1 Managers in charge of facilities:

- Ensure that only approved equipment and devices are used in the design and installation of automatic sprinkler systems.
- Ensure that automatic sprinkler systems are maintained properly and that a main drain flow test is performed and documented on each system annually.
- The inspector's test valve must be opened and documented at least every two years to assure that the sprinkler system operates properly.

3 Requirements:

3.1 Acceptance tests must be conducted and documented on sprinkler systems installed for employee protection.

3.1.1 Proper acceptance tests include the following:

- Flushing of underground connections.
- Hydrostatic tests of piping in system.
- Air tests in dry-pipe systems.
- Dry-pipe valve operation. Test of drainage facilities.

3.2 Water supply must be provided with at least one automatic water supply capable of providing design water flow for at least 30 minutes.

3.2.1 An auxiliary water supply or equivalent protection must be provided when the automatic water supply is out of service, except for systems of 20 or fewer sprinklers.

- 3.3 Hose connections for fire fighting use may be attached to wet pipe sprinkler systems provided that the water supply satisfies the combined design demand for sprinklers and standpipes.
- 3.4 Piping must be protected against freezing and exterior surface corrosion.
- 3.5 Drainage - all dry sprinkler pipes and fittings must be installed so that the system may be totally drained.
- 3.6 Sprinklers - older style sprinklers may not be used to replace standard sprinklers without a complete engineering review of the altered part of the system.
  - 3.6.1 Sprinklers must be protected from mechanical damage.
- 3.7 Sprinkler spacing - sprinklers must be spaced to provide a maximum protection area per sprinkler, a minimum of interference to the discharge pattern by building or structural members or building contents and suitable sensitivity to possible fire hazards.
  - 3.7.1 The minimum vertical clearance between sprinklers and material below is 18 inches.
- 3.8 Sprinkler alarms - on all sprinkler systems having more than twenty (20) sprinklers, a local water flow alarm must be provided which sounds an audible signal on the premises upon water flow through the system equal to the flow from a single sprinkler.

4 References:

- 4.1 OSHA Code of Federal Regulations 29 CFR Part 1910.159
- 4.2 National Fire Protection Association Codes: 13 Sprinkler Systems and 14 Standpipe and Hose Systems

5 Exhibits:

None.