# **SAFETY AUDIT CHECKLIST**

## Automatic Sprinkler Systems

#### Location:

#### Audited by:

Date:

Check the box under Y for "yes" or N for "no" to determine if each item is within compliance.

### <u>Y</u> <u>N</u>

- I. Do all automatic sprinkler designs used to comply with this standard provide the necessary discharge patterns, densities, and water flow characteristics for complete coverage in a particular workplace or zoned subdivision of the workplace? 1910.159(c)(1)(i)
- Des the employer assure that only approved equipment and devices are used in the design and installation of automatic sprinkler systems? 1910.159(c)(1)(ii)
- □ □ 3. Does the employer properly maintain an automatic sprinkler system installed to comply with this section? 1910.159(c)(2)
- □ □ 4. Does the employer assure that a main drain flow test is performed on each system annually? 1910.159(c)(2)
- □ □ 5. Is the inspector's test valve opened at least every 2 years to assure that the sprinkler system operates properly? 1910.159(c)(2)
- □ □ 6. Does the employer conduct proper acceptance tests on sprinkler systems installed for employee protection after January 1, 1981, and record the dates of such tests?
  1910.159(c)(3)
- □ □
  7. Do acceptance tests include flushing of underground connections, hydrostatic tests of piping in system, air tests in dry-pipe systems, dry-pipe valve operation and test of drainage facilities?1910.159(c)(3)(i), (c)(3)(ii), (c)(3)(iii), (c)(3)(iv) & (c)(3)(v)
- □ 8. Does the employer assure that every automatic sprinkler system is provided with at least one automatic water supply capable of providing design water flow for at least 30 minutes? 1910.159(c)(4)
- 9. Is an auxiliary water supply or equivalent protection provided when the automatic water supply is out of service, except for systems of 20 or fewer sprinklers? 1910.159(c)(4)
- 10. Does the employer assure that automatic sprinkler system piping is protected against freezing and exterior surface corrosion? 1910.159(c)(6)

#### Notes:

### <u>Y</u> <u>N</u>

- □ □ 11. If the employer attaches hose connections for fire fighting use to wet pipe sprinkler systems does the water supply satisfy the combined design demand for sprinklers and standpipes? 1910.159(c)(5)
- □ □ 12. Does the employer assure that all dry sprinkler pipes and fittings are installed so that the system may be totally drained? 1910.159(c)(7)

### **Sprinklers**

- If a 13. Does the employer assure that only approved sprinklers are used on systems? 1910.159(c)(8)(i)
- 14. Does the employer not use older style sprinklers to replace standard sprinklers without a complete engineering review of the altered part of the system? 1910.159(c)(8)(ii)
- □ □ 15. Does the employer assure that sprinklers are protected from mechanical damage? 1910.159(c)(8)(iii)
- □ □ 16. For all sprinkler systems having more than twenty (20) sprinklers, does the employer assure that a local waterflow alarm is provided which sounds an audible signal on the premises upon water flow through the system equal to the flow from a single sprinkler? 1910.159(c)(9)
- □ □ 17. Does the employer assure that sprinklers are 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? 1910.159(c)(10)
- □ □ 18. Is the minimum vertical clearance between sprinklers and material below at least 18 inches (45.7 cm)? 1910.159(c)(10)
- 19. Does the employer assure that hydraulically designed automatic sprinkler systems or portions thereof are identified and that the location, number of sprinklers in the hydraulically designed section, and the basis of the design is indicated? 1910.159(c)(11)

Item # Repair Date