MOBILE FIRE - RESCUE DEPARTMENT
FIRE CODE ADMINISTRATION

Sprinkler System
NFPA 13R Acceptance Inspection

Facility Name: _____

Facility Address: _____

Building Code Permit Number (if applicable) BLD- 201___ -_____

Reference numbers following checklist statements represent an NFPA code section unless otherwise specified.

1. _____ Approved plans and above-ground piping certification documents are on-site, 8.1.

2. _____ Underground supply testing and flushing are witnessed and underground piping certification is provided, 10.2.

3. _____ Hydro test for a wet system is 200 psi for 2 hrs. and should include the FDC piping.

4. _____ Hydro test for a dry system is 200 psi for 2 hrs.

5. _____ Hydro test for systems with less than 20 heads and no FDC can be tested at 50 psi above the maximum design pressure, 10.2.

6. _____ Backflow prevention device is installed in accordance with its listing and approved plans, and a forward flow test is performed, IFC 903.

Riser Room

7. _____ Water flow drain is routed to the exterior with a turned down elbow. Flow test is performed.

8. _____ Test valve and flow switch are monitored and tested.

9. _____ Paddle-type water flow is not allowed for dry systems.

10. _____ 24-hour monitoring service agency received signals.

11. _____ Water flow alarm is located according to the approved set of plans, is properly signed, and connected to the fire alarm system.

12. _____ Water supply valves are indicating type and supervised.

13. _____ Riser valves signed: main drain, main control, test valves, etc., and pressure gauges are on the supply and system sides of the check valve.

14. _____ A permanent label with hydraulic calculations is attached to the riser.

15. _____ The riser is supported by hanger or attachment, for multistory at the lowest level, alternate levels, at offsets, and at the top.

16. _____ At least 3 spare sprinklers are provided for each type of sprinkler, 11.1.

Fire Department Connection (FDC)

17. _____ FDC is locked capped and permanently signed.

18. _____ FDC has check valve and drip valve.

19. _____ FDC for wet single riser system connects to the system side.

20. _____ FDC is 2½ in. connection and 18 in. to 48 in. above grade.

Sprinklers

21. _____ Sprinkler head locations are the same as the plans.

22. _____ Pendent deflectors are 1 in. to 4 in. from the ceiling unless listing permits otherwise, 6.4.

23. _____ Sidewall deflectors are 4 in. to 6 in. from the ceiling unless listing permits otherwise, 6.4.

24. _____ Sidewall deflectors are at least 5 ft. from a fan, 6.4.

25. _____ Soffits exceeding 8 in. in width from the wall are sprinklered underneath or when sidewall sprinklers are installed and the soffit exceeds 12 in., 6.4.

26. _____ Sprinkler heads have guard if subject to damage.

27. _____ Sprinkler heads are not painted or covered.

28. _____ Proper type and temperature sprinklers are used.

29. _____ Escutcheon plates are installed.

Pipe: Hangers, Seismic, and Penetrations

30. _____ Piping layout and size are the same as the plans.

31. _____ Minimum clearance around pipes: Holes are 2 in. larger than pipe 1 in. to 3½ in., and 4 in. larger than pipe 4 in. or larger. NFPA 13:

32. _____ Flexible couplings may be used for pipe 2½ in. or larger at structural separations, within 2 ft. of expansion joints, within 2 ft. of the top and bottom of all risers, within 1 ft. above and below a floor penetration in multistory buildings, and on both sides of and within 1 ft. of concrete or masonry wall penetrations unless pipe clearance is provided, NFPA 13:

33. _____ Lateral sway bracing is installed in accordance with approved plans, NFPA 13:

34. _____ If provided, seismic separation assemblies are installed in accordance with the approved plans.

35. _____ Longitudinal sway bracing is a maximum of 80 ft. for mains and cross mains, within 40 ft. of the end of the pipe, and check spacing on the plans, NFPA 13:

36. _____ Lateral sway bracing is required at a maximum spacing of 40 ft. for all mains and cross mains, check the spacing on the plans, NFPA 13: .

37. _____ A 4-way sway brace is provided at least every 25 ft. and at the top of the riser, NFPA 13:

38. _____ Longitudinal and lateral bracing is provided for each run of pipe between the changes of direction unless the pipe run is less than 12 ft., NFPA 13:

39. _____ Splayed seismic bracing wire, wrap-around u-hooks, or lateral sway bracing used to restrict sprinkler movement that could impact the building, equipment, or finishing materials are located in accordance with the plans, NFPA 13.

40. _____ Restraining straps are on all C-clamps and the strap is bolted through if there is not a lip on the beam, NFPA 13.

41. _____ Branch lines have one hanger per section of pipe, NFPA 13.

42. _____ Cross mains have one hanger between each branch line and at the end of the main, 13.

43. _____ Risers in multistory buildings have supports at the lowest level, each alternate level, below offsets, and at the top, NFPA 13.

44. _____ Distance between riser supports is not greater than 25 ft., NFPA 13:

Acceptance Inspection ___ / ___ / 20___ _____

Fire Code Administration Staff Captain