Sprinkler System
NFPA 13R Acceptance Inspection

Facility Name: __________________________________________________________

Facility Address: _______________________________________________________

Building Code Permit Number (if applicable) BLDC 20__ - __________________

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 sprinkled 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