July 1, 2010

SANTA ROSA FIRE DEPARTMENT
FIRE PREVENTION BUREAU
INSPECTION CHECKLIST

RESIDENTIAL FIRE SPRINKLERS
NFPA 13R

Address:  
Permit #:  

Inspector:  
Date:  
Status:  

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Date:  
Status:  

A-Approved, R-Re-inspection Required

This Checklist outlines general requirements. Information contained herein applies to typical instances and may not address all circumstances.

FILE REVIEW

Y  N  Review plans, plan notes and F.D. plan review condition letter.
1.  

2.  Review Permits Plus notes and fees prior to final.

REQUIRED INSPECTIONS

3.  UNDERGROUND – Inspection of all underground, flush and backfill prior to connection to overhead system.

4.  OVERHEAD HYDROSTATIC INSPECTION – NFPA 13R, System shall be pressurized at 200 psi for two hours. Gauge shall be marked upon pressurization.

5.  FIRE SPRINKLER FINAL - NFPA 13R, A main drain, Inspector Test for audible alarm activation and final walkthrough of sprinkler trim shall be performed.

SITE PLAN

6.  Approved plans and above ground piping certification documents are on site - NFPA 13R 6.1.

7.  Underground water supply testing and flushing are witnessed and underground piping certification is provided - NFPA 13R 6.3.1.1.

8.  Systems having more than 20 sprinklers or having a fire department connection shall pass a hydrostatic pressure test performed for the aboveground piping system in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems - NFPA 13R 6.3.2.1.

9.  Hydro test of 50 PSI above the maximum design pressure of the system is permitted for a system without an FDC and less than 20 heads - NFPA 13R 6.3.2.2.

10. Backflow prevention device is installed in accordance with its listing and approved plans - Title 24 CFC 903.3.5.
RISER ROOM

11. ☐ ☐ Water flow drain location is in compliance with the approved set of plans. Flow test is performed - NFPA 13R 6.6.2.

12. ☐ ☐ NFPA 13R 6.2 - Test valve and flow switch are monitored and tested.

13. ☐ ☐ NFPA 13R 6.4.1 - There are a minimum of 3 spare sprinklers for each sprinkler type listed on the legend of the approved set of plans,

14. ☐ ☐ NFPA 13R 6.6.1.2 - The monitoring signals are received by the 24 hour monitoring location if required.

15. ☐ ☐ NFPA 13R 6.6.8.1 - Water flow alarm is located according to the approved set of plans, is properly signed, and connected to the fire alarm system, if a fire alarm system is provided.

16. ☐ ☐ NFPA 13 6.7.4 - Valves on the riser are labeled with signage and pressure gauges are on the supply and system sides of the check valve,

17. ☐ ☐ NFPA 13 9.2.5.1 - The riser supports for a multistory building are in compliance with the approved set of plans,

18. ☐ ☐ NFPA 25 5.2.7 - A permanent label with hydraulic calculations is attached to the riser.

19. ☐ ☐ Title 24 CFC 903.4 - Water supply valves are indicating type, electrically supervised and secured in the open position.

PIPE: HANGER and SEISMIC BRACING

20. ☐ ☐ Piping size and layout are in accordance with the approved set of plans - NFPA 13 9.1.3.9.2.

21. ☐ ☐ NFPA 13 9.2.3.2 - Branch lines have one hanger per section of pipe,

22. ☐ ☐ NFPA 13 9.2.4 - Hangers are installed in accordance with the approved set of plans,

23. ☐ ☐ NFPA 13 9.2.5.3 - Risers in multistory buildings have supports installed in accordance with the approved set of plans,

24. ☐ ☐ NFPA 13 9.3.3 - If provided, seismic separation assemblies are installed in accordance with the approved plans and manufacturer’s specifications.

25. ☐ ☐ NFPA 13 9.3.5.3 - Lateral sway bracing is installed in accordance with the approved set of plans.

26. ☐ ☐ NFPA 13 9.3.5.4 - Longitudinal sway bracing is installed in accordance with the approved set of plans,

27. ☐ ☐ NFPA 13 9.3.5.5 - 4-way sway bracing is installed in accordance with the approved set of plans,

28. ☐ ☐ NFPA 13 9.3.7 - Restraining straps are on all C-clamps and the strap is bolted through if there is not a lip on the beam.

SPRINKLERS

29. ☐ ☐ Pendent deflectors are 1 in. to 4 in. from the ceiling unless listing permits otherwise - NFPA 13R 6.7.1.5.1.

30. ☐ ☐ NFPA 13R 6.7.1.5.2 – Pendants with specific listings are positioned as such.
31. ☐ ☐ NFPA 13R 6.6.7.1.7 - Escutcheon plates are installed.

32. ☐ ☐ NFPA 13R 6.6.7.1.7 - Sprinkler heads are not painted or covered.

**FDC (if provided)**

33. ☐ ☐ FDC is a minimum 1½ in. connection and easily accessible - NFPA 13R 6.6.4.2.