

SANTA ROSA FIRE DEPARTMENT
FIRE PREVENTION BUREAU
INSPECTION CHECKLIST

July 1, 2010



RESIDENTIAL FIRE SPRINKLERS
NFPA 13R

Address:		Permit #:
Inspector:	Date:	Status:
Inspector:	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 | |
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | Review plans, plan notes and F.D. plan review condition letter. |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Review Permits Plus notes and fees prior to final. |

REQUIRED INSPECTIONS

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|----|--------------------------|--------------------------|--|
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | UNDERGROUND – Inspection of all underground, flush and backfill prior to connection to overhead system. |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | OVERHEAD HYDTROSTATIC INSPECTION – NFPA 13R, System shall be pressurized at 200 psi for two hours. Gauge shall be marked upon pressurization. |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | 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

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|-----|--------------------------|--------------------------|---|
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | Approved plans and above ground piping certification documents are on site - NFPA 13R 6.1. |
| 7. | <input type="checkbox"/> | <input type="checkbox"/> | Underground water supply testing and flushing are witnessed and underground piping certification is provided - NFPA 13R 6.3.1.1. |
| 8. | <input type="checkbox"/> | <input type="checkbox"/> | 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. | <input type="checkbox"/> | <input type="checkbox"/> | 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. | <input type="checkbox"/> | <input type="checkbox"/> | Backflow prevention device is installed in accordance with its listing and approved plans - Title 24 CFC 903.3.5. |

RISER ROOM

- | | Y | N | |
|-----|--------------------------|--------------------------|--|
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | Water flow drain location is in compliance with the approved set of plans. Flow test is performed - NFPA 13R 6.6.2. |
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13R 6.2 - Test valve and flow switch are monitored and tested. |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | 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. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13R 6.6.1.2 - The monitoring signals are received by the 24 hour monitoring location if required. |
| 15. | <input type="checkbox"/> | <input type="checkbox"/> | 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. | <input type="checkbox"/> | <input type="checkbox"/> | 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. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.2.5.1 - The riser supports for a multistory building are in compliance with the approved set of plans. |
| 18. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 25 5.2.7 - A permanent label with hydraulic calculations is attached to the riser. |
| 19. | <input type="checkbox"/> | <input type="checkbox"/> | Title 24 CFC 903.4 - Water supply valves are indicating type, electrically supervised and secured in the open position. |

PIPE: HANGER and SEISMIC BRACING

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|-----|--------------------------|--------------------------|---|
| 20. | <input type="checkbox"/> | <input type="checkbox"/> | Piping size and layout are in accordance with the approved set of plans - NFPA 13 9.1.3.9.2. |
| 21. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.2.3.2 - Branch lines have one hanger per section of pipe, |
| 22. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.2.4 - Hangers are installed in accordance with the approved set of plans, |
| 23. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.2.5.3 - Risers in multistory buildings have supports installed in accordance with the approved set of plans, |
| 24. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.3.3 - If provided, seismic separation assemblies are installed in accordance with the approved plans and manufacturer's specifications. |
| 25. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.3.5.3 - Lateral sway bracing is installed in accordance with the approved set of plans. |
| 26. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.3.5.4 - Longitudinal sway bracing is installed in accordance with the approved set of plans, |
| 27. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13 9.3.5.5 - 4-way sway bracing is installed in accordance with the approved set of plans, |
| 28. | <input type="checkbox"/> | <input type="checkbox"/> | 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. | <input type="checkbox"/> | <input type="checkbox"/> | Pendent deflectors are 1 in. to 4 in. from the ceiling unless listing permits otherwise - NFPA 13R 6.7.1.5.1. |
| 30. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13R 6.7.1.5.2 – Pendants with specific listings are positioned as such. |

- | | Y | N | |
|-----|--------------------------|--------------------------|--|
| 31. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13R 6.6.7.1.7 - Escutcheon plates are installed. |
| 32. | <input type="checkbox"/> | <input type="checkbox"/> | NFPA 13R 6.6.7.1.7 - Sprinkler heads are not painted or covered. |

FDC (if provided)

- | | | | |
|-----|--------------------------|--------------------------|--|
| 33. | <input type="checkbox"/> | <input type="checkbox"/> | FDC is a minimum 1½ in. connection and easily accessible - NFPA 13R 6.6.4.2. |
|-----|--------------------------|--------------------------|--|