

Fire Suppression Inspection



Permit Number: _____

Business/Building Name: _____ Address of Project: _____

Contractor: _____ Contractor's Phone: _____

Pass| Fail| NA **UNDERGROUND FIRE SUPPLY** Date of Inspection:

1. Approved plans are on site.
2. Conduit installed between vault and building.
3. Device location & installation are consistent with the approved plans.
4. Tamper switches at vault are installed.
5. Pipe properly restrained at all change of directions (thrust blocks or mechanical joints)
6. Hydrostatic testing at 200psi for 2-hrs with all joints exposed.
7. Pipe flush per NFPA 13/24 minimum requirements (4-in at 390gpm; 6-in at 880 gpm; 8-in at 1,560 gpm)
8. Contractors Material and Test Certificate signed and a copy provided for file.
9. Annual clearance where pipe passes through wall/slab
10. New hydrant: Make: _____ Main size: _____ Location: _____

FIRE SUPPRESSION SYSTEM Date of Inspection:

11. Approved plans are on site.
12. Sprinkler spacing and locations are per the approved plans.
13. Hangers and earthquake bracing is installed per NFPA 13 and the approved plans.
14. Pipe installed per approved plans approved plans. (sizes match; deflection at flex couplings within manufacturer specifications; verify count of coupons from field cuts; CPVC pipe flex within manufacturer specification; no wiring touching CPVC pipe; nothing supported by pipe)
15. Verify coverage of combustibles concealed spaces; refer to NFPA 13 for exceptions.
16. Verify coverage of required spaces; refer to NFPA 13 or NFPA 13R for exceptions.
17. Wet/Dry systems hydrostatically tested to 200 psi for 2-hrs.
18. Working pressure hydrostatic test; 2-hrs @ _____ psi
19. Dry systems pneumatically tested to 40 psi for 24-hrs.

FIRE SUPPRESSION SYSTEM FINAL INSPECTION Date of Inspection:

20. Hydraulic nameplate and inspection tag have been affixed to the riser; valves are labeled (inspector's test, main drain, control valve. etc.)
21. Dry system trip test has water at remote inspectors test point within 60 sec (verify orifice size to ensure matches smallest sprinkler used in the system).
22. Main drain test conducted. Results: _____
23. Check dry pipe valve air pressure, per manufacturer specification.
24. Exterior notification device activates with water flow alarm.
25. When present, fire alarm notification devices will activate by operation of the sprinkler water flow device.
26. Verify correct and distinctive signals are sent to FACP (alarm, trouble, and supervisory alarms); flow, pressure, tamper, low/high air, fire pump (running, power loss, phase reversal, etc.)
27. Verify required signage:
 - A. Control Valves: area controlled; companion valve (multiple for isolation);
 - B. Low point Drains: provide 11x17 system figure adjacent to dry pipe valve;
 - C. Hydraulic Data Plate on Riser: location of design area(s), discharge densities for design area(s), required flow & residual pressure at base of riser, occupancy or commodity classification, maximum storage height & configuration, hose stream & sprinkler demand, name of installing contractor;
 - D. General Information sign: location of facility, occupancy classification, commodity classification, presence of high-piled or rack storage, maximum storage height, aisle width, encapsulation, presence of solid shelving, flow test data, presence of flammable/combustible liquids, presence of other special storage;

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- E. Installed Sprinkler List (inside sprinkler box): Sprinkler Identification Number (SIN) or manufacturer, model, orifice, deflector type, temperature, pressure rating, general description, quantity of each type to be in box, issue or revision date of list;
- F. Antifreeze System (at control valve): manufacturer, type & brand; concentration by volume & volume used.
- 28. 24 hour monitoring service agency received all signals during system tests.
- 29. Knox caps (locking for new installations).
- 30. Contractors Material and Test Certificate signed and a copy provided for file.

*Note: This report certifies this fire and life safety system has been inspected for reliability to cover the items listed in the report and consistent with NFPA 13 & NFPA 24 Standards and ICC Codes. This report does not constitute all of the required inspecting and testing. Refer to the NFPA 13 or 24 Standard, and the International Fire Code for inspection and testing requirements.