

# ST. JOHNS COUNTY FIRE RESCUE CHECKLIST FOR FIRE SPRINKLER FINAL

*All code references are to NFPA 13, NFPA 13D (1&2 family) and NFPA 13R(residential up to 4 stories) unless otherwise noted.*

- 1) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**13D** system shall be tested for leakage at normal system operating water pressure except if FDC is installed, then 200 psi is required. (NFPA **13 D**:4.3.1)
- 2) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Underground piping** must be **hydrostatically tested** for 2 hrs at 200 psi. (NFPA **13:10.10.2.2.1**). “At the point it becomes exclusive for that system.”(FSS 633.021). Piping must be listed for underground piping per NFPA 24: Chart C-900.
- 3) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**FDC** shall be installed no higher than **18”-48”** (NFPA **13:8.16.2\***)
- 4) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Wet** sprinkler system shall be **hydrostatically tested** for 2 hrs at 200 psi. (NFPA **13:16.2.1.1**)
- 5) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Dry** sprinkler system shall be **tested with air pressure** of 40 psi for 24 hrs. **and** 200 psi with water. (NFPA **13:16.2.2.1**)
- 6) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
Standard **spacing from the wall** for **upright and pendent** sprinkler should be **4”**.(NFPA **13:8.6.3.3**) **Max space of heads=15’** (NFPA **13:8.6.2.2.1**)
- 7) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
Standard **spacing from the ceiling** for **side wall sprinkler** should be **4-6”**.(NFPA **13:8.7.4.1.1**)
- 8) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Combustible eaves and overhangs** have to be protected. (If combustible storage is underneath, it needs to be protected). **NFPA 101 occupancy specific.**
- 9) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Pressure water gauges** should be provided on each side of the water supply when an alarm check valve is installed. (NFPA **13:7.1.1.2**)
- 10) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Approved set of Job Site Copy plans on site, Test paperwork** (Underground & Aboveground) (NFPA 1:1.14.2(3) (Aboveground contractor responsible for Underground test certificates per FAC 69A-46.040)

- 11) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
Sprinkler **contractor required to be licensed** by Florida per FSS 633.541.
- 12) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
Contractors inspecting, testing and maintaining water based fire protection systems shall have an **ID card** issued from the Regulatory Licensing Section.(FAC 69A-46.041)
- 13) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Hydraulic plates** shall identify location of design area(s), discharge densities over design area(s), required flow & residual pressure demand at base of riser, **occupancy or commodity** classification & max permitted storage height, hose stream demand in addition to sprinkler demand. (NFPA 13:16.5.1)
- 14) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Caution signs shall be attached to all valves controlling sprinklers** reading, *“This valve controls fire protection equipment. Do not close until after the fire has been extinguished. Use auxiliary valves when necessary to shut off supply to auxiliary equipment.”* (NFPA 13:7.6.1.5)
- 15) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Control, drain, test connection valves** shall have **identification signs**. (NFPA 13:6.7.4.1)
- 16) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Valves controlling connections to water supplies** must be able to be seen from the floor or with an indicator light. (NFPA 13:8.15.1.1.2.4)
- 17) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
Each system that has been inspected or tested **shall have a record tag**. (69A-46.041)
- 18) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**Sprinkler box**: less than 300=6, 300-1000=12, over 1000=24, with wrench and located in a cabinet where temperature is not over 100 degrees F. (NFPA 13:6.2.9.5)
- 19) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_  
**2” main drain must be opened** until system pressure stabilizes. Record static & residual pressure. (NFPA 13:16.2.3.4.1)
- 20) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Drain connection** for systems supply risers and mains shall be sized:  
(Up to 2" = ¾ " or larger; 2 ½", 3", 3 ½" = 1 ¼" or larger; 4"plus = 2" only on  
13 systems) 13R = 1" (NFPA 13:8.15.2.4.2)

21) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Inspector test drain** shall have the smallest orifice installed on the particular system. (NFPA 13:8.16.4.2.1)

22) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Alarm must sound upon water flow** equal to the smallest orifice sprinkler,  
(Water flow switch alarm within 90 seconds) *NFPA 72, (2-6.2)*

23) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Outside alarms** may be omitted if system is being monitored and audible alarm devices inside the bldg. (NFPA 13:6.9.3.1\*)

24) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Maximum distance between hangers** shall not exceed that specified in NFPA 13:9.2.2. Steel pipe (except lightwall) 1" pipe (1 hanger (H) per 12'), 1.5"-8" pipe (1 H 15'). *Other materials and distances are in NFPA 13:9.2.2*

25) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Dry pressure switch must sound an alarm** (Let the air out of system, compressor should not be able to keep up, alarm sounds) Valve snaps open and must be reset from the inside. NFPA 13:16.2.3.2 "*Dry Trip*"

26) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

Dry pipe system over 500 gal requires an **exhauster/accelerator**. (NFPA 13:7.2.4.1)

27) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Paddle type flow switches** are not used in dry-pipe systems, or in the portion of a wet pipe system upstream from a dry-pipe system. (NFPA 13:6.9.2.4)

28) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

Provisions shall be made for **supervising** the conditions that are essential for the **operation of sprinkler and other fire supervision systems**. (NFPA 72:6.8.5.7.3)

29) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Where supervised automatic sprinkler systems are required** by another section of NFPA 101, supervisor attachments shall be installed and monitored for integrity in accordance with NFPA 72. (NFPA 101:9.7.2.1)

30) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

Sprinkler **head placement** is insufficient to provide proper coverage. (NFPA 13:8.1.1)

31) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Painted/damaged sprinkler heads** are required to be replaced. (NFPA 25:5.2.1.1.2)

32) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Escutcheon plate** missing or not provided. (NFPA 13:6.2.7.2)

33) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Water supplies** shall be capable of providing the required flow and pressure. (NFPA 13:15.1.2)

34) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Fire pump inside** =2 hr fire rated except if sprinkler, then 1 hr (Outside=50' away from bldg.) (NFPA 20:5.12.1.1)

35) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

All exposed sprinkler system **pipng shall be protected against freezing** unless a **freeze plug** is installed. (NFPA 13:8.15.3.1.3)

36) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

Where a **FDC services** only a portion of a bldg, a sign shall be attached indicating portions of the bldg served. (NFPA 13:8.16.2.4.5)

37) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**FDC must be** visible, accessible, couplings swivel, caps in place, ID signs in place, check valve not leaking. (NFPA 13:8.16.2.4.6)

38) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

**Each normally open valve** (i.e.: OS&Y) shall be secured by means of a seal or a lock or shall be electrically **supervised**. (NFPA 13:8.15.1.1.2.1)

39) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

System valves and gauges **shall be accessible** for operation, inspection, tests, and maintenance. (NFPA 13:8.1.2)

40) Y \_\_\_\_\_ N \_\_\_\_\_ N/A \_\_\_\_\_

Note: Florida Building Code, section 903.91 states “Where an automatic sprinkler system is provided either as a requirement or as an alternate to another requirement of this code, the system shall be supervised by an approved central, propriety, auxiliary, or remote station system in accordance with NFPA 72.

Exception: Supervisory facilities in accordance with 903.9 shall not be required for extinguishing systems in one-and-two family dwellings.