

(74) Fire Alarm Battery Test

- System activation during this test will cause failure of the inspection.
- If it is found that the AC power to the system was turned on during the test, the inspection will fail.

(81) Fire Alarm Final

- An inspection of the entire fire alarm system installation to assure that all parts of the system are **working properly** and the central station connection is on line and in service.
- This inspection cannot be performed until the fire alarm **and** fire alarm battery test/inspections have passed.

(81) Fire Alarm Final

- Central station has five minutes to receive the alarm and notify the emergency communications center.

- The above tests/inspections are done in accordance with NFPA 72 (1999), National Fire Alarm Code.
- The test/inspections can be done on separate dates or on two dates as long as they are done in order. That is, fire alarm, battery test, fire alarm final.

Common Failures

- Approved plans not on site.
- Not installed per approved plan.
- Improper addressing of devices.
- Central station not connected to system.
- Missing devices

Sprinkler tests/inspections available

- Sprinkler breezeway loop visual (85)
- Sprinkler breezeway loop hydro (84)
- Sprinkler breezeway loop flush (86)
- Sprinkler 4 head flow (87)
- Sprinkler hydro (62)
- Sprinkler visual (83)
- Sprinkler trip (63)
- Sprinkler flow (64)
- Sprinkler Air(65)
- Sprinkler Final (66)

Sprinkler breezeway loop visual (85)

- A **visual** examination of the breezeway loop sprinkler piping before it is concealed.
- All piping and other appurtenances **must be readily visible** for the representative of the Fire Marshal's Office to inspect from ground/floor level.

Sprinkler breezeway loop hydrostatic test/inspection (84)

- A hydrostatic test of all components of the breezeway loop sprinkler piping and appurtenances.
- The test is done at 200 P.S.I. or 50 pounds over static pressure, whichever is greater, for a two (2) hour period.
- All piping and appurtenances must be readily visible for the representative of the Fire Marshal's Office to inspect from ground/floor level.

Sprinkler breezeway loop flush (86)

- A flush of the breezeway loop sprinkler piping and appurtenances until the water flowing from the piping is clear.
- Must be done in a safe manner.

Common Failures

- Approved plans not on site.
- Not installed per approved plan.
- Failure to hold test pressure.
- No one at site.

Sprinkler 4 head flow (87)

- A flow of the equivalent of four (4) sprinkler heads on a 13R automatic sprinkler system to determine if a sufficient quantity of water is available at the required design water pressure.

Common Failures

- Inadequate flow rate.
- Approved plans not at site.
- Not ready for inspection.

Sprinkler hydrostatic test/inspection (62)

- A hydrostatic test of all piping components of an automatic fire sprinkler system.
- The test is done at 200 P.S.I. or 50 pounds over static pressure, whichever is greater, for a two (2) hour period.
- All piping and other appurtenances must be readily visible for the representative of the Fire Marshal's Office to inspect from ground/floor level.

Sprinkler hydrostatic test/inspection (62)

- **No close in until approved to do so.**
- **Only the ceiling needed to install the sprinkler heads may be in place.**

Common Failures

- Approved plans not on site.
- Not installed according to approved plans.
- Inability to hold test pressure.
- Not ready for inspection.
 - Must be at proper test pressure at time of inspector's arrival.
- Obvious leaks in system.
- Failure of test gauge to “zero” out.

Sprinkler visual (83)

- A visual inspection of all components of the automatic sprinkler system, including hangers and their appurtenances.
- This inspection can be conducted at the same time as the sprinkler hydrostatic test.
- All piping and hangers must be readily visible for the representative of the Fire Marshal's Office to inspect from ground/floor level.

Common failures

- Incorrect hangers installed.
- Improper number of hangers installed.
- Hangers installed incorrectly or without proper approval.
- Piping not installed per the approved plan.
- Equipment installed is different from that shown on the “approved” submittal.

Sprinkler Trip Test (63)

- A test/inspection of a **dry-pipe** sprinkler system to assure water reaches the inspector's test valve in sufficient quantity of flow **within sixty (60) seconds** of opening the inspector's test valve.

Common failures

- Not ready for inspection.
- Failure to deliver water in sufficient quantity within sixty (60) seconds.
- Incorrect testing mechanism.

Anti-freeze sprinkler systems

Must have an “approved” and “listed” RPZ valve between the anti-freeze system and the sprinkler system supplying it.



- Approval of this inspection will result in a **recommendation** to the Building Official to permit stocking operations.
- Responsibility for final approval and issuance of the stocking permit lies with the Building Official.

- Training of personnel or start of business operations cannot start until an **approved preoccupancy inspection** (149) has been conducted.

Preoccupancy Inspection (149)

- An inspection to assure that a building or space is meets all applicable codes and ordinances for occupancy by persons for permanent occupancy and operation.

Question and answer time

- Thanks for coming to the seminar.
- Please complete the feedback sheet and leave it for us to review.