(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.
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.
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.