

CITY OF TOLEDO OHIO



FIRE AND RESCUE DEPARTMENT

FIRE ALARM SYSTEM FINAL INSPECTION (ACCEPTANCE TEST) OBC 901.5

The installing contractor must have a valid City of Toledo business license and construction permit. Approved plans shall be on site. Fire inspections cannot be conducted until the license and a permit is obtained. **TMC 1512.02**

A NFPA 72 Record of Completion from the Fire Alarm Contractor is required. Signatures of installing contractor, equipment programmer and building owner or rep should be on the form. An acceptance test cannot be performed without this document. **NFPA 72 7.5.6 and OBC 907.7.2**

Verify system performance thru testing per **NFPA 72 14.4.1.1 & OBC 907.7**

Fire alarm initiation devices (pull stations, smoke detectors, heat detectors, water flow) should

- Send an alarm signal to the fire alarm panel and annunciator.
- Activate notification devices **OBC 907.5** within 10 seconds of activation **NFPA 72 1011.1**
- Decibel reading of notification appliances shall be 15dB above ambient noise level. **OBC 907.5.2.1.1**
- Any rated doors held open should close. **OBC 907.3**
- Any restricted egress doors held closed should open. **OBC 907.3.2**

Duct detectors should do the following

- Send a supervisory signal to the fire alarm control panel and annunciator. **OBC 907.3.1 & OMC 606.4.1**
- Shut down air handling unit and activate dampers **OMC 606.4**

Sprinkler system flow valves shall be tested via inspectors test must

- Actuate within 90 secs of waterflow **NFPA 72 17.12.2**
- Activate the electric bell on the outside of the building above the FDC. **OBC 903.4.2**

Sprinkler system water control valves (when closed) should

- Send a supervisory signal to the fire alarm control panel and annunciator during the first 2 turns of the handwheel or during one-fifth of the travel distance of the valve control apparatus. **NFPA 72 17.16.1.2**
- Send a signal to the fire alarm control panel when restored to normal position. **NFPA 72 17.16.1.1**

All devices should report their appropriate address at the FACP and at the annunciator. **OBC 907.6.3**

The circuit that powers fire alarm panel shall be indicated on the inside cover of the FACP, that the breaker is marked in red and that it serves no other equipment. **NEC 760.121 (B)**

Check to see that the control panel battery sizes match the approved plans. Batteries must be permanently marked with the month and year of manufacturer. **NFPA 72 10.6.10.1**

Verify that all signals were received at the off-site monitoring agency. (OBC 901.6.2) NFPA 72 14.4.3.2 (3) (d)

Verify name and phone number of monitoring agency and the facility acct # is on the inside cover of the fire alarm panel.

Non-addressable fire alarm panels shall have zone maps located at each FACP and remote annunciator.

Maps shall show:

- Floor plan and fire alarm zones of the occupancy being protected
- All detection device type and location
- The map shall be properly mounted to the wall and measures shall be taken to protect the map from physical damage or vandalism.

Copies of approved plans, other information pertinent to system design and all acceptance paperwork are required to be located in a fire alarm document box. (NFPA 72 7.7.2)

Door /room signs may be required. "Fire Alarm Equipment Room" or "Fire Alarm Panel Inside" **OFC 509.1**