

**SHELBY COUNTY
DEPARTMENT OF DEVELOPMENT SERVICES**

**FIRE ALARM AND DETECTION SYSTEM
TESTING AND CERTIFICATION REQUIREMENTS**

In accordance with Shelby County ordinances and adopted codes regulating building construction and the standard referenced therein; NFPA 72, *National Fire Alarm Code*[®]; the following written certifications and/or test reports shall be submitted by the installation contractor before final and formal acceptance.

1. Written certification that the system has been installed in accordance with approved plans and tested in accordance with the manufacturer's specifications.
2. Written certification that the installed system includes all required components and functions and that those components and functions are installed and operate as required.
3. Written certification that the system has been 100-percent acceptance tested in accordance with NFPA 72.
4. Written certification and test results confirming the system is free of ground faults short circuits, and the absence of unwanted voltages between circuit conductors and ground as per manufacturer's recommendations and NFPA 72.
5. Written certification that the following documentation has been provided to the system owner:
 - a. An owner's manual and installation instructions covering all system equipment.
 - b. Record drawings.
 - c. For software-based systems, a record copy of the site-specific software.
6. The Record of Completion Form shall be permitted to be a part of the written certifications required above. When more than one contractor has been responsible for the installation, each contractor shall complete the portions of the form for which that contractor had responsibility.

Means of transmission of signals from the protected premises to the central station:

McCulloh Multiplex One-way radio
 Digital alarm communicator Two-way radio Others

Means of transmission of alarms to the public fire service communications center:

(a) _____

(b) _____

System location: _____

NFPA 72, Chapter 9 — Auxillary

Indicate type of connection: Local energy Shunt Parallel telephone

Location of telephone number for receipt of signals: _____

2. Record of System Installation

(Fill out after installation is complete and wiring is checked for opens, shorts, ground faults, and improper branching, but prior to conducting operational acceptance tests.)

This system has been installed in accordance with the NFPA standards as shown below, was inspected by

_____ on _____, includes the devices shown in 5 and 6, and has been in service since _____.

NFPA 72, Chapters 1 2 3 4 5 6 7 8 9 10 11 (circle all that apply)

NFPA 70, *National Electrical Code*, Article 760

Manufacturer's instructions

Other (specify): _____

Signed: _____ Date: _____

Organization: _____

3. Record of System Operation

Documentation in accordance with Inspection Testing Form, Figure 10.6.2.3, is attached _____.

All operational features and functions of this system were tested by _____ date _____

and found to be operating properly in accordance with the requirements of:

NFPA 72, Chapters 1 2 3 4 5 6 7 8 9 10 11 (circle all that apply)

NFPA 70, *National Electrical Code*, Article 760

Manufacturer's instructions

Other (specify): _____

Signed: _____ Date: _____

Organization: _____

4. Signaling Line Circuits

Quantity and class of signaling line circuits connected to system (see NFPA 72, Table 6.6.1):

Quantity: _____ Style: _____ Class: _____

(NFPA 72, 2 of 4)

5. Alarm-Initiating Devices and Circuits

Quantity and class of initiating device circuits (see NFPA 72, Table 6.5):

Quantity: _____ Style: _____ Class: _____

MANUAL

(a) Manual stations Noncoded _____ Transmitters _____ Coded _____ Addressable _____

(b) Combination manual fire alarm and guard's tour coded stations _____

AUTOMATIC

Coverage: Complete _____ Partial _____
Selective _____ Nonrequired _____

(a) Smoke detectors _____ Ion _____ Photo _____ Addressable _____

(b) Duct detectors _____ Ion _____ Photo _____ Addressable _____

(c) Heat detectors _____ FT _____ RR _____ FT/RR _____ RC _____ Addressable _____

(d) Sprinkler waterflow indicators: Transmitters _____ Noncoded _____ Coded _____ Addressable _____

(e) The alarm verification feature is disabled _____ or enabled _____, changed from _____ seconds to _____ seconds.

(f) Other (list): _____

6. Supervisory Signal-Initiating Devices and Circuits (use blanks to indicate quantity of devices)

GUARD'S TOUR

(a) _____ Coded stations

(b) _____ Noncoded stations

(c) _____ Compulsory guard's tour system comprised of _____ transmitter stations and intermediate stations

Note: Combination devices are recorded under 5(b), Manual, and 6(a), Guard's Tour.

SPRINKLER SYSTEM

Check if provided

(a) _____ Valve supervisory switches

(b) _____ Building temperature points

(c) _____ Site water temperature points

(d) _____ Site water supply level points

Electric fire pump:

(e) _____ Fire pump power

(f) _____ Fire pump running

(g) _____ Phase reversal

Engine-driven fire pump:

(h) _____ Selector in auto position

(i) _____ Engine or control panel trouble

(j) _____ Fire pump running

ENGINE-DRIVEN GENERATOR:

(a) _____ Selector in auto position

(b) _____ Control panel trouble

(c) _____ Transfer switches

(d) _____ Engine running

Other supervisory function(s) (specify): _____

7. Annunciator(s)

Number: _____ Type: _____ Location: _____

8. Alarm Notification Appliances and Circuits

NFPA 72, Chapter 6 — Emergency Voice/Alarm Service

Quantity of voice/alarm channels: _____ Single: _____ Multiple: _____

Quantity of speakers installed: _____ Quantity of speaker zones: _____

Quantity of telephones or telephone jacks included in system: _____

Quantity and the class of notification appliance circuits connected to system (see NFPA 72, Table 6.7):

Quantity: _____ Style: _____ Class: _____

Types and quantities of notification appliances installed:

(a) Bells _____ With Visible _____

(b) Speakers _____ With Visible _____

(c) Horns _____ With Visible _____

(d) Chimes _____ With Visible _____

(e) Other: _____ With Visible _____

(f) Visible appliances without audible: _____

9. System Power Supplies

(a) Fire Alarm Control Panel: Nominal voltage: _____ Current rating: _____

Overcurrent protection: Type: _____ Current rating: _____

Location: _____

(b) Secondary (standby):

Storage battery: _____ Amp-hour rating: _____

Calculated capacity to drive system, in hours: _____

Engine-driven generator dedicated to fire alarm system: _____

Location of fuel storage: _____

(c) Emergency system used as backup to primary power supply: _____

Emergency system described in NFPA 70, Article 700: _____

10. Comments

Frequency of routine tests and inspections, if other than in accordance with the referenced NFPA standard(s):

System deviations from the referenced NFPA standard(s) are: _____

(signed) for installation contractor/supplier (title) (date)

(signed) for alarm service company (title) (date)

(signed) for central station (title) (date)

Upon completion of the system(s) satisfactory test(s) witnessed (if required by the authority having jurisdiction):

(signed) representative of the authority having jurisdiction (title) (date)