

# Concord Fire Department

## Fire Alarm Division

Requirements for radio fire alarm systems:

### **1 Permits**

- 1.1 As required by Massachusetts General Law Chapter 148, Section 27A a permit will be issued by the Concord Fire Department to perform work on a fire protection device.
- 1.2 A Concord Fire Department radio master box permit shall be completed, this permit must be accessible at the job site at all times until connection to the municipal fire alarm system.

### **2 Installation**

- 2.1 Radio Master Boxes shall be installed according to the following: manufacturer installation requirements, NFPA 72, and NFPA 1221.
- 2.2 Radio Master Boxes shall be installed in the same location as the Fire Alarm Control Panel.
- 2.3 The fire alarm control panel shall be connected to the radio box in such a way that when a zone is activated, only the corresponding zone of the radio box will be activated.
- 2.4 Radio Master Box Zone # 8 shall be used for Fire Alarm Control Panel trouble signals and sprinkler system tamper switches.
- 2.5 Radio Master Box zone assignments will be made in consultation with the Concord Fire Department.
- 2.6 Fire Alarm box number assignment will be made by the Concord Fire Department.
- 2.7 Boxes shall be programmed to self-test once daily, the Concord Fire Department will assign the time of the test.
- 2.8 Boxes shall be programmed for a 30-second delay in transmitting a trouble condition.
- 2.9 Boxes shall be programmed with door open tamper switch active.

### **3 Antenna Requirements**

- 3.1 Antennas for radio master boxes shall be installed according to the following: manufacturer installation requirements, NFPA 72, and NFPA 1221.
- 3.2 Antenna location to be determined during consultation with Concord Fire Department.
- 3.3 Antenna cabling shall be RG8U or equivalent and shall be protected by rigid steel conduit.

### **4 Scheduling**

- 4.1 Connecting to the municipal fire alarm system requires advance notice. Call at least one week ahead to schedule a connection.
- 4.2 A member of the Fire Alarm Division must be present when the box is placed in service.
- 4.3 A representative from the installing company must be present to conduct the acceptance testing.
- 4.4 When calling to schedule a connection, please be prepared to provide us with a completed copy of the Fire Alarm System Permit.

*Requests for more detailed information should be directed to either:*

*Lt. Owen Neville or  
Lt. Tom Judge*

*Both can be reached at Station Two (978) 318-3470*

*Mailing address: Concord Fire Department  
Station Two  
1201 Main Street  
Concord, Massachusetts 01742*

**Note to installers: These guidelines are subject to change, please make sure you are using the most recent revision.**