



## OFFICE OF THE CHIEF FIRE MARSHAL

# FIRE ALARM SYSTEM INSTALLATION STANDARD

### I. PERMIT

Obtain permit "To Perform Work" from the local fire department to install Fire Alarm System in accordance with NFPA 72 and applicable local codes and regulations.

### II. FIRE ALARM SYSTEM

Shall be fully addressable, closed circuit, electrically supervised, non-coded, temporal 3 alarm with both audible and visual indication of alarm and trouble modes.

### III. FACP

Shall be an addressable *Notifier*, NFS 320, 640, 3030 (depending upon system size).

### IV. USER PASSWORD

Contact Tufts Fire Marshal for password

### V. PROGRAM PASSWORD

Contact Tufts Fire Marshal for password

### VI. PROGRAMMING

- 1- Sleeping area smoke detectors shall be 24 volt sounder base through a relay and report as SUPERVISORY/TROUBLE. All sounders should activate on a common area alarm.
- 2- Common area initiating devices shall report as ALARM.
- 3- Sprinkler Tamper shall report as SUPERVISORY/TROUBLE.
- 4- Sprinkler Flows shall report as ALARM.
- 5- Carbon Monoxide detectors shall report via the *Bosch* panel.
- 6- Zone 70 for Disable/Enable of Horn/Strobes.

### VII. DEVICE LABELS

All addressable devices shall be clearly labeled (using a label maker) with the Loop and Address affixed to the device.

### VIII. COMMUNICATIONS

All Fire Alarm Control Panels shall be connected to the Tufts Campus Police Dispatch Center. This will be accomplished by using either the existing means of communication or by a new *Bosch D9412G-BV2 Fire/Security* panel. You must contact the Tufts Department of Public Safety IT person to facilitate this communication.

### IX. WIRE

Twisted, unshielded, minimum gauge 16 for SLC loop and either 16 or 14 gauge for the indicating circuit (depending upon wiring lengths and number of devices).

**X. AS-BUILT WIRING DIAGRAMS**

Upon completion of the installation of the system, provide to the Tufts Fire Marshal one (1) set of as- built wiring diagrams that shall illustrate emergency communication wiring and central panel schematics. The diagrams shall also be submitted on a CD.

**XI. COMMISSION**

Upon the completion of the installation of the equipment, the Fire Alarm System shall be commissioned by the AHJ and the Tufts Fire Marshal.

**XII. ACCEPTANCE TEST WITNESS**

The Fire Alarm System Contractor shall perform a *U.L. Acceptance Test* on the system. The test shall be witnessed by an independent third party (approved by the Tufts Fire Marshal). Said test shall be performed before the system is turned over to Tufts. The Project Manager must ensure that this be done by either requesting it in the Bid or carrying the cost separately in the project budget.

**XIII. DOCUMENTATION**

Provide the Tufts Fire Marshal with *Record of Completion* and a *Fire Alarm Test Report* indicating that ALL installed devices have functioned and communicated properly to the Tufts Police Dispatch Center.

**XIV.** The undersigned has agreed to comply with the Tufts Fire Alarm System Standard as described above.

\_\_\_\_\_  
PROJECT LOCATION/NAME

\_\_\_\_\_  
TUFTS FIRE MARSHAL

\_\_\_\_\_  
FIRE ALARM CONTRACTOR

\_\_\_\_\_  
DATE

OFFICE } 617-627-2745

FAX } 617-627-3116