THE UNIVERSITY OF TOLEDO
Health Science Campus

Fire Alarm and Mass Notification Requirements

August 30, 2010

The following minimum fire alarm and mass notification requirements shall be implemented for all **NEW** construction and RENOVATION projects on Health Science Campus buildings:

➢ All Fire Alarm Equipment is to be manufactured by GE/EST.

➢ The University of Toledo representative contact people are Floyd Shoup or Jim Graff.

➢ Equipment supplied by UTMC

➢ JDRM is the engineering contact for the Fire/Life Safety/Mass Notification System covering design and engineering.

➢ All fire alarm systems within each building on the complex will be linked together on the GE/EST-3 network wide system.

➢ All new projects requiring modifications to the main fire alarm panel that are NOT a GE/EST-3 system are to be looked at from a complete replacement of the fire alarm system, bringing it up to a GE/EST-3 building system. System is also to reside on the GE/EST-3 network wide system.

➢ The existing GE/EST-3 fire alarm network is controlled from 2 separate head-ends, allowing both to act as master, depending upon the campus needs at any given time.

➢ NO FIRE ALARM HORNS – ONLY SPEAKERS, NO EXCEPTION.

➢ All notification devices are to be ceiling mount.

➢ FIRE – All notification devices are to be combined fire speaker with clear fire strobe, 70V.

➢ MASS – All notifications devices are to be ceiling strobe mounted next to the fire speaker with clear fire strobe, 70V.

➢ WIRING – Notification circuits are to have ALL new wiring.

➢ WIRING – Initiating circuits are to have ALL wiring.

➢ WIRING – Network circuits are to have all new wiring and/or fiber optic for interfacing into the GE/EST-3 network wide system.

➢ WIRING EXISTING – All old devices & wiring shall be removed completely after new devices and wiring has been installed. There will be nothing abandoned in place.

- ➢ WIRING – Plenum

- ➢ PENETRATION – Fire Stop = HILTI Solutions

- ➢ NEC / NFPA CODES – All wiring is to meet code requirements and cannot be installed with other cables. They must be separate conduits or bridal rings. Cable tray can only be used when separated by a factory divider.

- ➢ AMPLIFIERS 70V – 80% load on design with 20% future load expansion.

- ➢ STROBES – 80% Load on design with 20% future load expansion.

- ➢ STROBE LENS – Clear fire, Amber mass

- ➢ POWER – 110ac power off of the life support power circuit with fuse breaker lockout.

- ➢ SURGE PROTECTION – Shall be provided at each panel

- ➢ LABELING – All notification devices are to be labeled, showing circuit numbering and device sequence.

- ➢ LABELING – All initiating devices are to be labeled with address ID point.

- ➢ DRAWINGS – As built drawings will reflect all new network/system architecture changes, labeling and addresses.