Fire Protection System

Description:
The purpose of the section is to provide guidelines for the design and installation of fire protection equipment, rooms and systems.

Related Sections:
• 01 86 13 Mechanical Equipment Room Requirements
• 21 00 00 Fire Sprinkler

Effective Date:
January 1, 2016

Applicable Standards:
• NFPA 101, Life Safety Code

General Requirements:
• The following equipment shall be included as part of a comprehensive system for fire protection in accordance with NFPA 101, Life Safety Code and approved by Facilities Management.
  • A complete multiplex fire alarm system with a control panel located in a designated fire protection services room, or as specified.
  • A textually graphic annunciator in the main lobby areas and other locations as designated.
  • Standard fire alarm signals, claxon horns and flashing lights located throughout the building.
  • The connection of the system with the Central Control and Monitoring System.
  • The use of smoke detectors, magnetic door releases, manual pull stations, and HVAC controls where appropriate, and as required.
  • A complete automatic sprinkler system throughout the building with main controls in a designated fire protection services room.
  • A complete standpipe system (combined with the sprinkler system) for fire department use in areas of the building with three or more stories and as directed.
  • Fire extinguisher cabinets.

• The entire system and all equipment are to be designed and/or specified in accordance with the latest addition of all applicable codes and standards.
• In cases in which sensitive electronic equipment is to be located within the facility, it will be necessary to design a fire detection system capable of interrupting the power supply to the equipment. Halon or carbon-dioxide type suppression systems shall not be specified.
• Coordination with Facilities Management to insure conformity of all new fire protection equipment is required.
• As designated, locate fire pump equipment room in a manner that allows for (a minimum) of one (1) entrance door with direct access to the exterior. The door should be sized to accommodate required periodic servicing and/or removal of installed equipment.