

Table 8.1: General Requirements of Fire Detection and Alarm Systems

ITEMS	REQUIREMENTS
14. FIRE ALARM CONTROL PANEL (FACP)	<p><u>2. POSITIVE ALARM SEQUENCE (DELAYED ALARM SEQUENCE)</u></p> <ul style="list-style-type: none"> i. The signal from an automatic fire detection device selected for positive alarm sequence operation shall be acknowledged at the fire alarm control unit by trained personnel within 15 seconds of annunciation in order to initiate the alarm investigation phase. ii. If the signal is not acknowledged within 15 seconds, notification signals in accordance with the building evacuation or relocation plan and remote signals shall be automatically and immediately activated. iii. Trained personnel shall have up to 180 seconds during the alarm investigation phase to evaluate the fire condition and reset the system. If the system is not reset during the investigation phase, notification signals in accordance with the building evacuation plan and remote signals shall be automatically and immediately activated. iv. If a second automatic fire detector selected for positive alarm sequence is actuated during the alarm investigation phase, notification signals in accordance with the building evacuation or relocation plan and remote signals shall be automatically and immediately activated. v. If any other initiating device is actuated, notification signals in accordance with the building evacuation or relocation plan and remote signals shall be automatically and immediately activated. vi. The system shall provide means for bypassing the positive alarm sequence. <p><u>3. ACTUATION TIME</u></p> <ul style="list-style-type: none"> i. Actuation of alarm notification devices or emergency voice communications, fire safety functions, and annunciation at the protected premises shall occur within 10 seconds after the activation of an initiating device. ii. An open or ground condition of any fire alarm circuits shall result in the annunciation of a trouble signal at the protected premise within 200 seconds. iii. System bandwidth is monitored to confirm that all communications between equipment that is critical to the operation of the fire alarm system or fire safety functions take place within 10 seconds; failure shall be indicated within 200 seconds. iv. Failure of any equipment that is critical to the operation of the fire alarm system or fire safety functions is indicated at the master fire alarm control unit within 200 seconds. v. A listed barrier gateway, integral with or attached to each control unit or group of control units, as appropriate, shall be provided to prevent the other systems from interfering with or controlling the fire alarm system. vi. Each interconnected fire alarm control unit shall be separately monitored for alarm, supervisory, and trouble conditions. vii. Interconnected fire alarm control unit alarm signals shall be permitted to be monitored by zone or by combined common signals. viii. Protected premises fire alarm control units shall be capable of being reset or silenced only from the fire alarm control unit at the protected premises or a computer-based front end unit listed for use by the manufacturer of the fire alarm control unit. ix. All non-fire alarm components shall be listed for fire alarm use or for fire conditions.