Table 8.1: General Requirements of Fire Detection and Alarm Systems

ITEMS	REQUIREMENTS
22. VISUAL WARNING FOR ELEVATORS	i. Actuation from elevator hoist way and elevator machine room smoke detectors or other automatic fire detection shall cause separate and distinct visible annunciation at the building fire alarm control unit or the fire alarm control unit and required annunciators to alert fire fighters and other emergency personnel that the elevators are no longer safe to use. ii. Where lobby detectors are used for other than initiating elevator recall, the signal initiated by the detector shall also initiate an alarm signal. iii. For each elevator or group of elevators, an output(s) shall be provided for the elevator visual warning signal in response to the following: a. Activation of the elevator machine room initiating devices b. Activation of the elevator hoist way initiating devices
23. ELEVATOR SHUTDOWN	i. Elevator system shall have over riding switch for Fire Fighter's control to over ride all the elevator shutdown functions. ii. Where elevators are used for evacuation in the building fire strategy, the elevators and fire fighter's control mechanisms shall include all the features as per **Chapter 3, Section 3.9.** iii. Where heat detectors are used to shut down elevator power prior to sprinkler operation, the detector shall have both a lower temperature rating and a higher sensitivity as compared to the sprinkler. iv. If heat detectors are used to shut down elevator power prior to sprinkler operation, they shall be placed within 610 mm of each sprinkler head. v. If pressure or water flow switches are used to shut down elevator power immediately upon or prior to the discharge of water from sprinklers, the use of devices with time-delay switches or time-delay capability shall not be permitted. vi. Control circuits to shut down elevator power shall be monitored for presence of operating voltage. Loss of voltage to the control circuit for the disconnecting means shall cause a supervisory signal to be indicated at the control unit and required remote annunciators. vii. The initiating devices shall be monitored for integrity by the fire alarm control unit
24. HVAC SHUTDOWN	i. If connected to the fire alarm system serving the protected premises, all detection devices used to cause the operation of HVAC systems' smoke dampers, fire dampers, fan control, smoke doors, and fire doors shall be monitored for integrity. ii. Smoke detectors mounted in the air ducts of HVAC systems shall initiate either an alarm signal at the protected premises or a supervisory signal at a constantly attended location or supervising station. iii. If the fire alarm control unit actuates the HVAC system for the purpose of smoke control, the automatic alarm-initiating zones shall be coordinated with the smoke-control zones they actuate. iv. Where interconnected as a combination system, a Firefighter's Smoke Control Panel (SCP) as per **Chapter 10, Table 10.1.11.,** shall be provided to perform manual control over the automatic operation of the system's smoke control strategy. v. Where interconnected as a combination system, the smoke control system programming shall be designed such that normal HVAC operation or changes do not prevent the intended performance of the smoke control strategy.