

8. FIRE PROTECTION REGULATIONS

- 8.1 Provision of Fire Protection Facilities shall meet the recommendations, requirements and specifications of the National Fire Protection Association, NFPA and shall be approved by the Service Authority (Fire) and the Authority based on fire risk assessment and (UAE) Government Safety Regulations.
- 8.2 Every building shall be provided with adequate means of egress, and other safeguards which shall be specified in kind, number, location and capacity, taking into consideration type of occupancy, number of persons exposed type of building materials and other relevant factors that may affect the safety of occupants.
- 8.3 A minimum of two means of escape shall be provided in every building, and shall be arranged in such a way that will minimize the eventuality of both being rendered impassable during the same emergency conditions.
- 8.4 Every exit stair and other vertical opening between floors of a building shall be enclosed and protected as necessary to prevent the spread of fire, fumes and smoke through the vertical openings from floor to floor, giving enough time for the occupants to reach the means of escape.
- 8.5 The building shall be provided with fire detection alarm system to warn the occupants in the event of fire. The fire alarm system shall meet the recommendations, requirements and specifications of the National Fire Protection Association (NFPA) and shall be approved by the Service Authority (Fire). The fire alarm system shall be adequately connected to the Airport Fiber Optic Backbone Network. Fire detection will be solely provided by means of sprinkler water-flow where allowed by NFPA in case of buildings’ sprinkler system.
- 8.6 Manual Fire Extinguishers will be omitted where allowed by NFPA in case of buildings’ sprinkler system.
- 8.7 For industrial occupancy - fire protection and means of egress shall be provided as per their occupancy and hazard classifications, i.e.
- a. General industrial Occupancy or
 - b. Special Purpose Industrial Occupancy

- 8.8 For storage occupancy - fire protection and means of egress shall be provided as per their hazard contents classifications in compliance with NFPA requirements.
- 8.9 Every building shall be properly and fully fire protected by an approved fire protection system complying with NFPA requirement taking into consideration the type of occupancy and usage. Main fire protection system components such as fire pumps, controller, sprinklers and accessories as applicable shall be U.L. listed for the intended use and Factory Mutual approved.
- 8.10 Fire protection system for hangars shall meet the requirements of NFPA 409 Standard of Aircraft Hangars.
- 8.11 The following NFPA standards are found relevant to the project occupancy types and which will form the main core of the design approach:
- NFPA 10: Portable Fire Extinguishers
 - NFPA 13: Installation of Sprinkler Systems
 - NFPA 20: Centrifugal Fire Pumps