

7. FIRE PROTECTION REGULATIONS

- 7.1 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.
- 7.2 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.
- 7.3 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.
- 7.4 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.
- 7.5 Every building shall be provided with fire detection alarm system to warn the occupants in the event of fire. The alarm system shall be adequately connected to the Fire control room monitoring system through a digital communicator and to the DWC City Integrated Intelligent Building Solution (I²BS) System through DWC WAN. The developer shall provide necessary gateway equipment and connectivity to the DWC WAN available with in the Building telecom room. The consultant shall refer to the DWC City I²BS specifications available with DWC-DuServe for technical details. The developer may choose to avail the services of 365/7/24 monitoring of the fire alarm system by the DWC City I²BS Central Control Centre and receive alarm/fault notifications by email/SMS.
- 7.6 Every building which utilizes any inflammable or hazardous GAS in places like restaurants/canteens, etc. shall be provided with gas detection system to shut off the gas supply and to warn the occupants in the event of gas leakage. The gas detection system shall be adequately connected to the DWC City Integrated

Intelligent Building Solution (I²BS) System through DWC WAN. The developer shall provide necessary gateway equipment and connectivity to the DWC WAN available with in the Building telecom room. The consultant shall refer to the DWC City I²BS specifications available with DWC-DuServe for technical details. The developer may choose to avail the services of 365/7/24 monitoring of the detection system by the DWC City I²BS Central Control Centre and receive alarm/fault notifications by email/SMS.

- 7.7 Portable fire extinguishers of appropriate type and numbers must be provided and conveniently located in every building in accordance with NFPA requirements.
- 7.8 For industrial occupancy - fire protection and means of egress shall be provided as per their occupancy and hazard classifications, i.e.
- General industrial Occupancy or
 - Special Purpose Industrial Occupancy
- 7.9 For storage occupancy - fire protection and means of egress shall be provided as per their hazard contents classifications in compliance with NFPA requirements.
- 7.10 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.