10.3.6 The Developer substation(s) and associated 11 kV metering shall be installed in locations to which access is available at all times. Prior approval shall be obtained from the Service Authority (Electrical).

10.3.7 Space clearance around the electrical equipment shall be provided for safe operation, inspection, testing and maintenance, according to the Service Authority (Electrical) Regulations.

10.3.8 Electrical rooms and substations shall be properly ventilated/air conditioned, as applicable. In case, electronic equipment will be installed within the electrical rooms or substations, these shall be air conditioned to a max. temperature of 26 deg. C.

10.3.9 The Developer will be responsible for terminating the incoming supply cable at the Service Authority (Electrical) metering cabinet, in accordance to the Service Authority (Electrical) Regulations.

10.3.10 All tariff metering will be provided by the Service Authority (Electrical) and restricted to one for each consumer, unless otherwise approved by the Service Authority (Electrical).

10.3.11 All electrical installations shall be provided with separate earthing system. The earthing system shall comply with the British standards code of practice (latest edition) and shall have the TN-S earthing configuration. Clean and separate earthing system shall be provided for the Extra Low Voltage systems as required. The consumer's earthing system shall be approved by the Service Authority (Electrical).

10.3.12 A lightning protection system shall be designed to comply with the British Standards Code of Practice for the Protection of Structures Against Lighting (latest edition).

10.4 EMERGENCY POWER SUPPLY

10.4.1 If continuity of power is essential for the safe operation of the equipment, the Developer should apply to the Service Authority (Electrical) indicating the required essential power supply (at Medium Voltage level).

10.4.2 For Code F MROs, emergency power shall be available at the 11kV side up to 20% of the hangar maximum demand load. Load shedding arrangements shall be part of the hangars internal LV distribution in order to meet the 20% emergency supply criteria.

10.4.3 For Code C MROs and FBOs, it shall be the responsibility of the Developer to provide stand-by power supply. The stand-by generators shall not be synchronized with the Service Authority (Electrical) network at any time. Proper electrical and mechanical interlocks between circuit breakers shall be provided. Generator installation shall be permitted prior to the Service Authority (Electrical) approval.

10.4.4 Generator noise level shall not exceed 75 dBA at 3m outside the generator room enclosure. Generator characteristics and specifications shall comply with ISO standards and comply with local authorities for environmental restrictions.

10.5 INSTALLATION REQUIREMENTS

10.5.1 All the Electrical Installations shall follow the Service Authority (Electrical) Regulations, in addition to British Standard (BS)/ International Electro technical Commission (IEC) Codes (latest Editions) where not in contradiction with the local codes of practice and regulations.

10.5.2 Temporary power supply for plot construction shall be the responsibility of the Developer and subjected to the Authority approval.

10.5.3 The Developer shall maintain a power factor not less than 0.9 for the complete installation.

10.5.4 The Developer shall install an approved fire detection and alarms system in all his constructions. Fire Alarm system shall be installed in the premises in compliance to NFPA Code or relevant British Standards and according to the Local Authorities jurisdiction.

10.5.5 The Developer shall install 100mm UPVC ducts (number of ducts will depend on the facility requirements) to connect the plot with the outside service corridor for the telecommunication, control and fire alarm detection system.