

To ensure safety during maintenance work, all part of the main circuits shall be capable of being grounded before opening the enclosure. In addition, it shall be possible, after opening of the enclosure, to connect ground electrodes for the duration of maintenance.

The intervals between the necessary inspections shall keep the maintenance cost to a minimum. The inspection schedule is to be established by the Contractor.

3C.1.3 Service Conditions

All materials shall be suitable for installation and use at an altitude of 1000 m or less in a tropical climate with a maximum ambient temperature of 45°C and 100% relative humidity for outdoor equipment (or a maximum ambient temperature of 40°C and 90% relative humidity for indoor equipment) without corrosion, deterioration or degradation of performance characteristics.

3C.1.4 Codes and Standards

All equipment, materials, devices, fabrication and testing shall conform to the codes, specifications and standards listed below and all applicable codes, specifications and standard referred therein.

IEC	International Electrotechnical Commission
ANSI	American National Standards Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
IEEE	The Institute of Electrical and Electronics Engineers
ICEA	Insulated Power Cable Engineer Association
NEMA	National Electrical Manufacturers Association

All threaded parts requiring external connection shall have UNC screw and pipe threads. All internal parts may have threads in accordance with the established specification in the country of manufacturer.

It is the intent that all equipment, materials, devices, fabrication and testing shall conform to the application codes, specifications and standards even though they are not specifically noted herein. Equivalent codes, specifications and standards established and approved in the country of equipment or material manufacture may be used subject to EGAT's approval. If this election is made, the Contractor shall so state and include in his bid the governing codes, specifications, and standards proposed together with an itemized list of specific deviations from the requirements of codes, specifications and standards referred herein.

The latest issue of all codes, specifications and standards shall govern.

The most stringent requirement, in the event of code, specification or standard conflict, shall govern. This specification shall govern in the event of discrepancies between it and applicable codes, specifications and standards.

3C.1.5 Equipment Requirements

3C.1.5.1 Composition of Switchgear

The switchgear shall be installed and associated with circuit breakers, disconnecting switches, grounding switches, voltage transformers, current transformers, surge arresters, buses, joint boxes, terminations, control cubicles and necessary support structures.