

SINGAPORE STANDARD

Code of practice for temporary electrical installations

– Part 3 : Shipbuilding and ship-repairing yards



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installations**

– Part 3 : Shipbuilding and ship-repairing yards

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Institution of Engineers Singapore
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Contents

| | Page |
|---|-------------|
| Foreword _____ | 6 |
| CLAUSES | |
| <hr/> <hr/> | |
| 1 General _____ | 7 |
| 2 Definition _____ | 8 |
| 3 General requirements _____ | 9 |
| 4 Protection for safety _____ | 13 |
| 5 Selection and erection of equipment _____ | 15 |
| 6 Inspection, testing and maintenance _____ | 30 |
| ANNEXES | |
| <hr/> <hr/> | |
| A Statutory regulations and associated memoranda _____ | 31 |
| B Temporary electrical installations inspection checklist for shipbuilding and ship-repairing yards _____ | 32 |
| C Danger signboard _____ | 37 |
| TABLES | |
| <hr/> <hr/> | |
| 1 Maximum earth fault loop impedance (Z_s) for a disconnection time 5s and U_o of 55 Volts (single-phase) _____ | 15 |
| 2 Colour coding _____ | 27 |
| FIGURES | |
| <hr/> <hr/> | |
| 1 Main deck vessel higher than berthside _____ | 19 |
| 2 Main deck vessel lower than berthside _____ | 19 |
| 3 Example of single-phase socket-outlet assembly fed from a 110 V reduced voltage system _____ | 22 |
| 4 Example of single-phase socket-outlet assembly fed from a 230 V single-phase source for fixed lighting _____ | 22 |
| 5 Example of single-phase socket-outlet assembly fed from a 230 V single-phase source for portable electrical equipment _____ | 23 |
| 6 Example of single-phase socket-outlet assembly fed from a 400 V three-phase source _____ | 23 |
| 7a Example of three-phase socket-outlet assembly fed from a 400 V 32 A source (without neutral) for three-phase equipment _____ | 25 |
| 7b Example of three-phase socket-outlet assembly fed from a 400 V 63 A source (without neutral) for three-phase equipment _____ | 25 |
| 8a Three-phase and single-phase socket-outlet assembly fed from a 400 V 32 A three-phase source _____ | 26 |
| 8b Three-phase and single-phase socket-outlet assembly fed from a 400 V 63 A three-phase source _____ | 26 |

Foreword

This Singapore Standard was prepared by the Technical Committee on Temporary Electrical Installations under the direction of the Electrical and Electronic Standards Committee.

It deals with temporary electrical installations for shipbuilding and ship-repairing yards. It is a revision of Singapore Standard CP 47 : 1989 – “Code of practice for temporary electrical installations for shipbuilding and shiprepairing yards”.

This part of CP 88 is drawn up to supplement the general requirements of Singapore Standard CP 5 – “Code of practice for electrical installations”. In this revision, the basic electrical safety requirements with regard to protection against electric shocks and earthing arrangement are stipulated. In addition, guidelines on the installation of supply cable between shore distribution boards and the main intake switchboard on-board vessel, installation of generating sets, socket-outlet assembly and the use of portable electric hand-held tools and hand-lamps on board vessel are given to address the safety issues associated with these parts of installations.

It is to be noted that for installations where separated extra low voltage (SELV) is used, references shall be made to the general requirements for protection by SELV in Singapore Standard CP 5.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR.*
3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

Code of practice for temporary electrical installations – Part 3 : Shipbuilding and ship-repairing yards

1 General

1.1 Scope

This part of the code deals principally with the provision of temporary electricity supply from the shore fixed installations or from mobile generating sets to vessel(s) under construction and during repair and conversion work.

This Code covers all temporary electrical installations in the building and repairing of vessels in the yards. It applies to electrical installations set up for the provision of electricity supply during the execution of the works in:

- (a) shipbuilding and repairing yards;
- (b) vessels moored alongside the yards; and
- (c) confined spaces or confined locations or other similar situations on board vessels.

The Code does not cover :

- a) electricity supply for the vessel's electrical installation and any part of such installation set up for the use by the crew on board vessel;
- b) installations operating at voltages exceeding low voltage.

1.2 Objective

The objective of this Code is to protect persons and property against electrical hazards while the vessels are under construction and during repair and conversion. The general requirements of Singapore Standard CP5 shall be read in conjunction with this Code.

This Code shall cover electrical installations and practices generally experienced in the yards under normal safe working environment. For installations in hazardous spaces or zones in vessels which contain flammable and explosive vapours or gases, the recommendations of the skilled person, the safety department of the shipyards or relevant authorities shall be sought prior to the commencement of any electrical installation work.

1.3 Relationship with statutory regulations

This Code is to be implemented in conjunction with other statutory requirements currently in force in the Republic of Singapore and should there be any conflicting requirements in this Code and the Acts and their Regulations, clarification should be sought from the relevant bodies administering the Acts and Regulations.

1.4 Use of established materials, equipment and methods

Only established materials, equipment and methods are considered, but it is not intended to discourage invention or to exclude other materials, equipment and methods affording an equivalent degree of safety which may be developed in the future.

1.5 New materials and inventions

Where the use of a new material or invention leads to departures from this Code, the resulting degree of safety of the installation is to be not less than that obtained by compliance with this Code. Such departure shall be the subject of a written specification of a competent body, or skilled person or persons, and the installation shall be deemed to be outside the scope of this Code.