

SINGAPORE STANDARD

SS 535 : 2007

(ICS 29.160.40)

CODE OF PRACTICE FOR

Installation, operation, maintenance, performance and construction requirements of mains failure standby generating systems

(Formerly CP 31 : 1996)

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Contents

	Page
Foreword _____	6

CLAUSES

1	Scope and purpose _____	7
2	Normative references _____	7
3	Definitions _____	7
4	Exchange of information _____	9
5	Generator room _____	10
6	Engine _____	12
7	Alternator _____	13
8	Control panel _____	14
9	Control and protection _____	16
10	Load characteristics and applications _____	18
11	Installation _____	18
12	Commissioning _____	22
13	Instruction manuals _____	22
14	Maintenance schedule for standby generating set _____	25
15	Safety _____	29

ANNEXES

A	Label for earth and terminals _____	32
B	Rating for diesel powered generating sets _____	33
C	Standby generating set maintenance schedule _____	38
D	Normative references _____	41

FIGURES

1	Illustration of COP _____	34
2	Illustration of PRP _____	35
3	Illustration of LTP _____	36
4	Illustration of ESP _____	37

Foreword

This Singapore Standard was prepared by the Technical Committee on the Installation, Operation, Maintenance, Performance and Construction Requirements of Mains Failure Standby Generating Systems under the purview of the Electrical and Electronic Standards Committee. It is a revision of CP 31 : 1996 and has been renumbered as SS 535.

In this revision, emphasis on the earthing arrangement of the standby generating set is included. The power rating definitions in Annex B is based on that given in ISO 8528 – "Reciprocating internal combustion engine driven alternating current generating sets." The standby generating set test/maintenance report in Annex C is referred to by the Singapore Civil Defence Force.

In preparing this Code, reference was also made to the following publications:

1. ISO 8528 - Reciprocating internal combustion engine driven alternating current generating sets.
2. Singapore Civil Defence Force standby generating set test/ maintenance report.

Acknowledgement is made for the use of information from the above publications.

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

NOTE

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The changes in Singapore Standards are documented through the issue of either amendments or revisions.*
2. *Compliance with a Singapore Standard does not exempt users from legal obligations.*

Code of practice for installation, operation, maintenance, performance and construction requirements of mains failure standby generating systems

1 Scope and purpose

This Code shall apply to the performance and construction requirements, installation, operation, testing, inspection and maintenance of mains failure standby generating systems for buildings and where applicable to mobile generating systems. It shall not apply to installations for marine or off-shore or base load use. Installations shall be designed to conform with the requirements of the relevant authorities in Singapore.

The purpose of this Code is to establish uniformity in engineering practices for mains failure standby generating systems in Singapore. The recommendations of this Code are intended to ensure safety to life and property. Installation and maintenance of mains failure standby generating systems requires close co-ordination among users, architects, engineers, manufacturers and contractors. This Code covers the essential information that should be exchanged among parties from the stage of planning to installation, including subsequent maintenance.

2 Normative references

The referenced documents in Annex D are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.