

SS 576 : ~~2012~~ 2019
(ICS 29.060; 93.020)

SINGAPORE STANDARD

Code of practice for earthworks in the vicinity of electricity cables

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~~The Technical Committee on Earthworks in~~

EESC sets up the ~~Vicinity of Electricity Cables appointed by the Electrical~~ Technical Committee on Buildings Facilities and ~~Electronic Standards Committee and responsible for~~ Services to oversee the preparation of this standard. The Technical Committee consists of ~~representatives from~~ the following-~~organisations~~ members:

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The Technical Committee sets up the Working Group on Earthworks in the Vicinity of Electricity Cables to prepare this standard. The Working Group consists of the following experts who contribute in their *individual capacity*:

	Name
Co-Convenors	: Mr Mohammad Irwan Er. Joseph Samy
Secretary	: Mr Jason Low
Members	: Er. Chuck Kho Mr Quek Hong Peng Ms Rao Yimin Ms Sia Ai Ling Er. Teo Chor Kok

The organisations in which the experts of the Working Group are involved are:

Association of Consulting Engineers Singapore

Energy Market Authority

JTC Corporation

Ministry of Manpower

SP Group

The Institution of Engineers, Singapore

The Singapore Contractors Association Ltd

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Contents

	Page
Foreword	6
 CLAUSES	
0 Introduction	7
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 The Dangers associated with damage to underground cables	10
5 Responsibilities of stakeholders	11
6 Cable detection work	16
7 Protection of cables and diversion	19
8 Construction activities in the vicinity of electricity cables	21
9 Risk management	24 25
 Annex	
A General information on electricity licensees, network voltages and cable types	27
 Tables	
1 Earthworks below ground level in the vicinity of underground cables	10
A.1 Typical cable types, colours, outer diameters and buried depths at various network voltages	28
 ANNEXES	
A Relevant sections of the Electricity Act	26
B General information on electricity licensees, network voltages and cable types	27
C Forms	30
D Cable detection methods	36
E Cross-sectional views of existing underground cables	39
 TABLES	
1 Works below ground level in the vicinity of underground cables	10
2 Typical SPPA cable types, colours, outer diameters and buried depths at various network voltages	28

Foreword

This Singapore Standard was prepared by the ~~Technical Committee~~ Working Group on Earthworks in the Vicinity of Electricity Cables set up by the Technical Committee on Buildings Facilities and Services under the purview of ~~the Electrical and Electronic Standards Committee~~. EESC.

This is a ~~new~~ revision of SS 576 : 2012, Singapore Standard developed to serve as a guide to best practice for earthworks activities near underground electricity cables to reduce the possibility of cable damages. The intent of the standard is to minimise the number of damages to electricity cables caused by earthworks undertaken by contractors.

This is a revision of SS 576 : 2012. The key changes of this revision are as follows:

- Inclusion of a new clause 9.3 on personal protective equipment.
- Deletion of the informative Annex on “Relevant sections of the Electricity Act legal requirements”.
- Deletion of the informative Annex on “Forms”.

This standard ~~would apply to all forms of earthworks carried out in the vicinity of~~ covers best practices for earthwork activities near underground electricity cables. ~~In addition to specifying an effective~~ to reduce the possibility of cable ~~damage prevention system of work, the standard would provide practical preventive measures to avoid damages to cables in different situations, including works that~~. Earthworks can involve ~~excavation e.g.~~ excavations in the construction of buildings, roads, viaducts, flyovers and sewers; laying of pipes and cables; soil investigation works; boring, dredging, jacking and piling; and sinking of earth ~~rods~~ rod. The ~~adoption and implementation~~ intent of ~~this~~ the standard ~~are aimed at lowering~~ is to minimise the number of ~~cable damage incidents causing power outages and/or voltage dips~~ damages to electricity cables caused by earthworks undertaken by contractors, which could adversely affect electricity consumers.

In preparing this Singapore Standard, reference was made to the following publications:

1. Code of practice on working near electricity supply lines, 2005 Edition, Electrical and Mechanical Services Department, the Government of the Hong Kong Special Administrative Region.
2. Electricity Act.
3. Learner’s Guide, WSQ Detect & Locate Underground Power Cables, ~~SP PowerGrid Limited~~ Singapore Institute of Power and Gas.

Acknowledgement is made to Hong Kong Special Administrative Region ~~and SP PowerGrid Limited~~ for the use of their materials. ~~We also acknowledge the Cable Detection Association for their contributions.~~

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.