

Australian Standard[®]

**The design, installation and operation of
underground petroleum storage
systems**

STANDARDS
Australia



This Australian Standard® was prepared by Committee ME-017, Flammable and Combustible Liquids. It was approved on behalf of the Council of Standards Australia on 15 January 2008.

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 - Australian Institute of Petroleum
 - Australian Paint Manufacturers Federation
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-

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PREFACE

This Standard was prepared by Standards Australia Committee ME-017, Flammable and Combustible Liquids, to provide requirements and recommendations for the underground storage of petroleum products. It is based on the Australian Institute of Petroleum (AIP) CP 4—2002, *Code of Practice—The design, installation and operation of underground petroleum storage systems*, which has been withdrawn by AIP.

This Standard is intended to promote the safe, environmentally sound and efficient underground storage of petroleum products. It is intended to be used by oil industry employees, service station operators, installation contractors and regulatory authorities. It is not intended to replace any statutory regulations in any area, which take precedence over the requirements of this Standard. The relevant regulatory authority having jurisdiction may determine the extent of application of this Standard.

Individual companies may have additional or special policies and requirements that exceed or vary the requirements set out in this Standard. In such situations, such companies also need to be consulted.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard**The design, installation and operation of underground petroleum storage systems**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for the design and installation of underground petroleum storage systems for the storage of petroleum products or used oil, and provides requirements for the operation, maintenance, testing, repair and re-use of new and existing underground petroleum storage systems.

This Standard also sets out inventory control and loss investigation procedures that are appropriate to all underground petroleum storage systems.

NOTE: In this Standard, the term 'underground petroleum storage system' is abbreviated to UPS system.

1.2 APPLICATION**1.2.1 Where this Standard applies**

This Standard applies to the following:

- (a) New installations, in terms of design and installation.
- (b) New and existing installations, in terms of operation, maintenance, testing, repair and re-use of UPS systems.
- (c) All installations, in terms of inventory control and loss investigation procedures.

1.2.2 Where this Standard does not apply

This Standard does not apply to the following:

- (a) Existing UPS systems, with regard to their design and installation.
- (b) Structures such as sumps, separators, stormwater or wastewater collection systems, catchment basins, pits, septic tanks.
- (c) Bunded tanks situated below ground level, but not in the ground, such as those in a basement, cellar or tunnel.
- (d) Pipe work that is not associated with an UPS system.
- (e) Storage systems for liquefied petroleum gas (LP Gas), which are covered by AS/NZS 1596.

1.2.3 Application of sections

Table 1.1 summarizes the processes to be followed for the installation of new UPS systems and upgrading of existing UPS systems in order to comply with this Standard and lists the relevant references that apply.