



The storage and handling of liquefied natural gas



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The following are represented on Committee ME-070:

- Australasian Fire and Emergency Service Authorities Council
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Pipelines and Gas Association
 - Gas Energy Australia
 - Gas Technical Regulators Committee
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AS 3961:2017

Australian Standard[®]

The storage and handling of liquefied natural gas

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-070, Liquefied Natural Gas Storage and Handling, to supersede AS 3961—2005.

The objective of this Standard is to provide requirements for the design, construction and operation of installations for the storage and handling of liquefied natural gas (LNG), covering installations of atmospheric-type tanks for supplying marine terminals, pipeline peak shaving, and pressure tanks.

The LNG industry has developed considerably since the previous editions and this edition draws upon this experience. Requirements that were modelled on the storage of LP Gas and flammable liquids have been rewritten to reflect the properties and usage of LNG.

Changes have included the following:

- (a) Removal of requirements for pressure storages of less than 5 m³ as small storages are not in use in the industry and the cryogenic properties of LNG are such that small storage is generally not practical.
- (b) Reinforcing the containment and separation aspects of firefighting as the use of water sprays can exacerbate a fire situation.
- (c) Removing requirements that are in the scope of other standards and are adequately covered in those standards. Examples are pressure vessel requirements in the scope of AS 1210, *Pressure vessels*, and transport requirements in the scope of the ADG Code and AS 2809, *Road tank vehicles for dangerous goods*, Parts 1 and 6.
- (d) Revision of the fill coupling requirements to align with International Standards and allow for the use of dry-break couplings.

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

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix provides information and guidance only.

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