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Australian Standard 1596-1983

Amndt 1
Amndt 2.

SAA LP GAS CODE

Amndt 3.

AMNDT 3
2
1989-09-15
STANDARDS ASSOCIATION OF AUSTRALIA



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This Australian standard was prepared by Committee ME/15, Storage and Handling of Liquefied Petroleum Gases. It was approved on behalf of the Council of the Standards Association of Australia on 25 November 1982 and published on 9 May 1983.

The following interests are represented on Committee ME/15:

Australian Liquefied Petroleum Gas Association
Board of Fire Commissioners of New South Wales
Confederation of Australian Industry
Department of Industrial Relations, N.S.W.
Department of Industrial Affairs and Employment, S.A.
Department of Minerals and Energy, Vic.
Department of Mines, Qld
Department of Mines, Tas.
Department of Mines, W.A.
Energy Authority of New South Wales
Gas and Fuel Corporation of Victoria
Insurance Council of Australia Ltd
Metropolitan Fire Brigades Board, Melbourne

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This standard was issued in draft form for comment as DR 80234.

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No 1

to

AS 1596—1983

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CORRECTION

SUMMARY: This correction applies to Table 3.1.

Published on 6 June 1983.

Page 14. Table 3.1.

Columns 3 and 4—*delete* the words 'Note' and 'Notes', but retain the brackets and the values given.

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STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 2
to
AS 1596—1983
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CORRECTION

SUMMARY: This amendment applies to Clauses 1.4, 1.5.26, 2.2.2(b), 3.2.1, 5.3.1, 5.3.2, 5.6.1, 6.3.1(b), 9.11.1(c), 10.2.2, Fig. 1.1, Table 3.1, Table 10.1 and Paragraph B3.2.

Published on 3 September 1984.

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Page 5. Clause 1.4.
Amend the introductory paragraph to read:
An LPG storage in aboveground tanks shall be classified as follows:

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Page 6. Clause 1.5.26.
Delete existing paragraphs (c) and (d) and *substitute*:
(c) A storage of combustible materials.
(d) A storage of flammable liquids (e.g. a tank, a tank compound, a group of drums or other containers) and areas specifically for filling and/or handling flammable liquids.

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Page 7. Fig. 1.1.
Add to the title:
ABOVEGROUND TANKS

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Page 8. Clause 2.2.2(b).
Delete existing Clause 2.2.2(b) and *substitute*:
(b) The words 'This tank shall not be used to contain any material which at the design temperature would have a vapour pressure in excess of the design pressure.'

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Page 12. Clause 3.2.1.
Add a Note clause 3.2.1 as follows:
NOTE: See Appendix F for an illustration of the application of separation distances.

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Page 14. Table 3.1.
Add Note 5 to Table 3.1 as follows:
5. The separation distance is determined individually for each tank, and is assessed on the basis of its own particular capacity, and not on any aggregation with the capacity of any accompanying tank.

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Page 22. Clause 5.3.1.
Add a Note to Clause 5.3.1 as follows:
NOTE: See Appendix F which illustrates the application of location requirements.

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Page 22. Clause 5.3.2.
Add paragraph (g) as follows:
(g) A cylinder shall be installed so that the point of LPG withdrawal (for vapour withdrawal cylinders) and the pressure relief device communicate with the vapour space.

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Page 23. Clause 5.6.1.

Add paragraph (g) as follows:

- (g) Cylinders shall be stored in such a manner that the pressure relief device is in communication with the vapour space.
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Page 24. Clause 6.3.1(b).

Delete '6000 L' and substitute '600 L'.

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Page 33. Clause 9.11.1(c).

Delete the words 'i.e. with the cylinders upright'.

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Page 35. Clause 10.2.2.

Delete 'Clause 10.1.7' and substitute 'Clause 10.1.5'.

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Page 35. Table 10.1.

Add to the title:

ABOVEGROUND TANKS

*Add an * to the column headings 'Class A' and 'Class B'.*

Add a footnote to the Table as follows:

**See Clause 1.4.*

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Page 38. Paragraph B3.2.

Delete Paragraph B3.2 and substitute:

B3.2 Filling Procedure. The mass-filling ratio is read directly from Table B1 according to the characteristics of the particular LPG and the size of the tank. The ratio is multiplied by the tank capacity to give the maximum permissible cargo loading, in kilograms or tonnes.

STANDARDS ASSOCIATION OF AUSTRALIA
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AMENDMENT No 3
to
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REVISED TEXT

The 1983 edition of AS 1596 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This amendment applies to Clauses 3.10.5, 4.3.2(a), and 4.5.2, Table 4.1, and Figure 4.1 (new).

Published on 2 November 1987.

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Page 16. Clause 3.10.5.

Delete the words 'overlap a boundary or'.

Add the following sentence:

Where a pump is of less than 2 L/s capacity and is fitted with a provision to ensure that LPG escape consequent on a failure of the pump seal will not exceed 300 mL/s at 1200 kPa, the extent of the hazardous zone may be reduced to 3 m.

Delete existing Note and *substitute*:

NOTE: This concession has been limited to small pumps because of a lack of information on the capabilities of leak restrictors on larger pumps.

Page 19. Clause 4.3.2(a).

Delete the second and third lines and *substitute*:
 'at least 150 mm of clean inert sand.'

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Page 20. Clause 4.5.2.

Delete existing clause and *substitute*:

4.5.2 Point of Discharge. The discharge from a safety relief device shall be directed vertically upwards, and shall terminate not less than 3 m above the ground. The discharge point shall be at least 2 m from any opening in a wall or structure which could permit vapour to enter a building, a cavity wall, a roof space, or similar enclosure.

NOTE: Particular care should be taken to recognize such potential entry paths as weatherboards, tiles, etc.

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Page 20. Table 4.1.

Delete existing Table and *substitute*:

TABLE 4.1
LOCATION REQUIREMENTS—BURIED STORAGE SYSTEMS

From	To	Minimum requirement
Tank shell	Public place boundary Adjacent property boundary	As illustrated in Fig. 4.1
	Protected works (on or off site)	No specific requirement, limited by other requirements
Tank fitting, e.g. valve, flange, ullage gauge	Public place	3 m
	Adjacent property	6 m
	Protected works	6 m
Pump	See Clause 3.10.5	
Filling connection	For a wet hose delivery,* distances as for tank fittings; otherwise Clause 3.6.4(b) applies	

* This term refers to a design of hose assembly which limits the loss on disconnection to 1 L or less of liquid LPG.

Page 20.

Add a new Figure (4.1) as follows: