

Australian Standard™

Pipelines—Gas and liquid petroleum

**Part 4: Offshore submarine pipeline
systems**

This Australian Standard was prepared by Committee ME-038, Pipelines—Gas and Liquid Petroleum. It was approved on behalf of the Council of Standards Australia on 29 October 2003 and published on 22 December 2003.

The following are represented on Committee ME-038:

Australian Corrosion Association
Australian Gas Association
Australian Institute of Petroleum
Australian Petroleum Production and Exploration Association
Australian Pipeline Industry Association
Bureau of Steel Manufacturers of Australia
Cooperative Research Centre for Materials, Welding and Joining
Department of Labour New Zealand
Department of Minerals and Energy WA
Department of Mines and Energy (NT)
Department of Natural Resources and Environment (Victoria)
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Gas Association of New Zealand
Ministry of Energy and Utilities NSW
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Pipelines—Gas and liquid petroleum

Part 4: Offshore submarine pipeline systems

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee ME-038, Petroleum Pipelines, to supersede AS 1958—1981, *Gas and liquid petroleum submarine pipelines*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide minimum requirements for offshore submarine pipelines.

This Standard is Part 4 of the following suite of Standards, which covers high-pressure petroleum pipelines:

AS

- 2885 Pipelines—Gas and liquid petroleum
- 2885.1 Part 1: Design and construction
- 2885.2 Part 2: Welding
- 2885.3 Part 3: Operation and maintenance
- 2885.4 Part 4: Offshore submarine pipeline systems (this Standard)
- 2885.5 Part 5: Field pressure testing

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

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Australian Standard

Pipelines—Gas and liquid petroleum

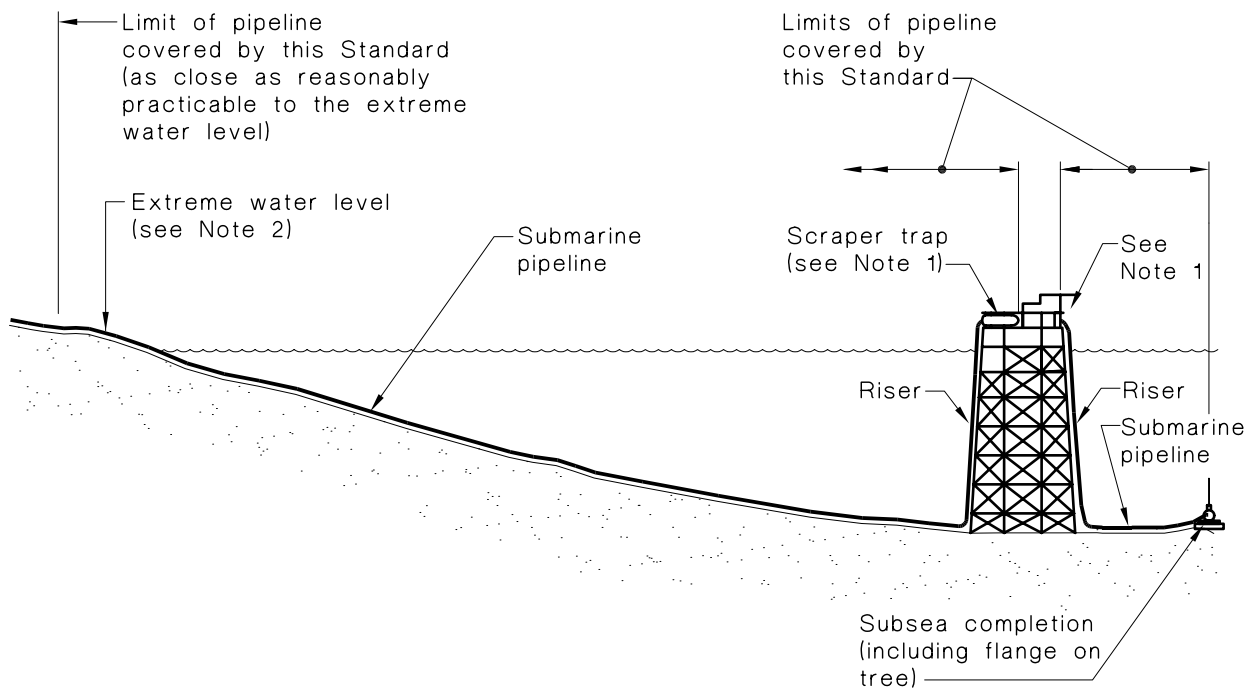
Part 4: Offshore submarine pipeline systems

1 SCOPE

This Standard specifies requirements for offshore submarine pipeline systems with respect to safety, design, materials, fabrication, installation, testing, commissioning, operation, maintenance, re-qualification and abandonment.

2 APPLICATION

This Standard applies to offshore submarine pipeline systems constructed of carbon steel, clad/lined steel and corrosion-resistant alloys. The application limits to pipelines and associated piping and components shall be as shown in Figures 1.1, 1.2 and 1.3.



NOTES:

- 1 Where there is no scraper trap, the Standard's limit shall be the riser and including the emergency shutdown (ESD) value.
- 2 Extreme water level is that water level resulting from the design environmental event being a combination of tide, storm surge and wave run-up.

FIGURE 1.1 APPLICATION LIMITS—SUBSEA COMPLETION TO PLATFORM AND PLATFORM TO SHORE
(The arrangement shown is typical only)