



Exploration & Production

GENERAL SPECIFICATION

PIPELINES - RISERS

GS EP PLR 106

Design of onshore pipelines as per ISO 13623

03	01/2011	Addition of DNV-RP-J202 for CO ₂ pipelines - removal of SSIV locations
02	10/2009	Updated to revised ISO 13623: 2009
01	10/2005	Addition of "EP" root to GS identification, safety matters
00	10/2003	First issue
Rev.	Date	Notes

Owner: EP/TDO/TEC

Managing entity: EP/TDO/TEC/PLR



Contents

1. Scope	3
2. Reference documents.....	3
3. Amendments to the ISO 13623 - for onshore pipeline sections.....	4
3.1 General.....	4
3.2 Amendments to § 3.1.12 - MAOP	4
3.3 Amendments to § 3.1.23 - SMYS	5
3.4 Amendments to § 5.1 - System definition	5
3.5 Amendments to § 5.3 - Hydraulic analysis	5
3.6 Amendments to § 5.4 - Overpressure.....	5
3.7 Amendments to § 6.1 - Design principles	5
3.8 Amendments to § 6.3.2.2 - Temperature	5
3.9 Amendments to § 6.4.2.2 - Yielding.....	5
3.10 Amendments to § 6.4.2.4 - Fatigue	5
3.11 Amendments to § 6.4.2.5 - Ovality	5
3.12 Amendments to § 6.6 - Pipeline Spanning	6
3.13 Amendments to § 6.7.3 and to § 11 - Testing.....	6
3.14 Amendments to § 6.8.2.1 - Pipeline on land.....	6
3.15 Amendments to § 6.9 - Crossings	6
3.16 Amendments to § 6.9.6 - Pipe bridge crossings	6
3.17 Amendments to § 6.9.7 - Sleeved crossings	6
3.18 Amendments to § 6.11 - Section isolation valves	6
3.19 Amendments to § 6.14 - Fabricated Components	6
3.20 Amendments to § 13.4.6 - Testing of modified pipelines.....	6
3.21 Amendments to Annex B	7
4. Other references	7



1. Scope

This General Specification is supplementing the **GS EP PLR 104** when the **ISO 13623** is the selected Prime Reference for the design of an onshore pipeline system.

Any contradictions between the **GS EP PLR 104** and the **ISO 13623** that have not been treated in the present General Specification shall be treated at the commencement of the design and the resolutions shall be approved by Company.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
ISO 13623	Petroleum and natural gas industries - Pipeline transportation systems

Professional Documents

Reference	Title
DNV-RP-J202	Design and Operation of CO ₂ Pipeline

Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	