



Exploration & Production

GENERAL SPECIFICATION

PIPELINES - RISERS

GS EP PLR 102

**Design of submarine pipelines as per API RP 1111
and ASME B31.4/31.8**

Rev.	Date	Notes
06	01/2011	Addition of DNV-RP-J202 for CO ₂ pipelines ; new shoreline and riser battery limits sections
05	10/2009	Propagation buckling check with API RP 1111
04	10/2008	General revision
03	10/2007	Various modifications
00	10/2002	First issue

Owner: EP/TDO/TEC

Managing entity: EP/TDO/TEC/PLR



Contents

1. Scope	3
2. Reference documents.....	3
3. Amendments to ASME B31.4 and B31.8	4
3.1 General.....	4
3.2 Yielding.....	4
3.3 Local buckling	4
3.4 Propagation buckling	4
3.5 Bar buckling	4
3.6 Cyclic loads and fatigue.....	4
3.7 Riser battery limits	4
3.8 Shoreline approaches.....	5
4. Amendments to API RP 1111	5
4.1 General.....	5
4.2 Propagation buckling	5