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Riser Integrity Management

Group Practice

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) GP 65-71.

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1. Scope

- a. This GP provides requirements for integrity management of dynamic riser systems. The boundaries of riser systems can vary widely; guidance on topside and seabed interface limits is given in 7.2 of this GP.
- b. This GP is applicable to integrity management of the following:
 1. Vertically-tensioned well, pipeline and flowline riser systems.
 2. Vertically tensioned drilling or workover riser systems (where installed on BP-operated production facilities).
 3. Flexible risers.
 4. Steel catenary risers.
 5. Hybrid risers.
 6. Offloading lines, where these comprise pipe hanging in the water column.
- c. This GP does not cover integrity management of the following:
 1. Topsides facility connections or components e.g. vents, drains, compressor links, filters, etc., beyond the topside interface limit of the riser.
 2. Subsea flowlines, connections or components, beyond the seabed interface limit of the riser.
 3. Risers on fixed platforms (e.g., jacket structures).
 4. Drilling risers where installed on contractor-operated facilities.
 5. Offloading lines, if these comprise floating hoses.

2. Normative references

The following referenced documents may, to the extent specified in subsequent clauses and normative annexes, be required for full compliance with this GP:

- For dated references, only the edition cited applies.
- For undated references, the latest edition (including any amendments) applies.

BP

GDP 5.0-0001 Integrity Management.

3. Terms and definitions

Many of the terms and definitions used in this standard are common to those in GDP 5.0-0001. An up-to-date Glossary of Operating Management System (OMS) terms may be found in that standard and at the following website: <http://safetyandoperations.bpweb.bp.com/OMS/>

4. Symbols and abbreviations

For the purpose of this GP, the following symbols and abbreviations apply:

EA	Engineering authority.
ETP	Engineering Technical Practice.



FMEA	Failure modes and effects analysis.
GoM	Gulf of Mexico.
GN	Guidance Note.
GP	Group Practice.
HAZID	Hazard identification.
HAZOP	Hazard and operability study.
IM	Integrity management.
KPI	Key performance indicators.
LOPA	Layer of protection analysis.
MAR	Major accident risk.
MOC	Management of change.
MODU	Mobile offshore drilling unit.
MPcp	Major projects common process.
OMS	Operating management system.
QRA	Quantitative risk analysis.
RIM	Riser integrity management.
SETA	Segment engineering technical authority.
SOP	Site operating procedures.
SPA	Single point of accountability.
SPU	Strategic performance unit; a BP “entity” in OMS.
STP	Site technical practice.
TA	Technical authority.

5. Overview

5.1. General

- a. This GP is for RIM and is intended to:
 1. Guide the user on setting up a RIM system for use during riser operations.
 2. Emphasise existing requirements of industry codes and standards.
 3. Emphasise requirements specific to BP.
- b. The extent of each riser shall be clearly defined. Risers have interfaces with other systems (e.g., subsea pipelines, topsides pipework and structure, well systems) and the design,

