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Guidance on Practice for Selection and Use of Pipeline Codes and Standards

GP 43-08

BP GROUP
ENGINEERING TECHNICAL PRACTICES

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GP 43-08. This Guidance on Practice (GP) is not derived from any heritage documents.

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1. Scope

This GP provides guidance on the selection and use of industry codes and standards for the design, procurement, construction, testing, and commissioning for pipeline projects.

The document discusses the selection of codes and standards dependant on project location, and examines the role of codes and standards in the regulatory approvals process.

2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this technical practice are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

BP

GP 43-01	Guidance on Practice for Principles of Onshore Pipelines.
GP 43-02	Guidance on Practice for Principles of Offshore Pipeline Design.
GP 43-20	Guidance on Practice for Selection and Use of Pipeline Codes and Standards.
GP 43-21	Guidance on Practice for Principles of Offshore Pipeline Design.

American Petroleum Institute (API)

API RP 1111	Design, Construction, operation, and Maintenance of Offshore Hydrocarbon Pipelines.
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American Society of Mechanical Engineers (ASME)

ASME B31.4	Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids.
ASME B31.8	Gas Transmission and Distribution Piping Systems.

British Standards Institute (BSI)

PD 8010-1	Code of practice for pipelines. Part 1: Steel pipelines on land.
PD 8010-2	Code of practice for pipelines. Part 2: Subsea pipelines.

Det Norske Veritas (DNV)

DNV OS-F101	Submarine Pipeline Systems.
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International Standards Organisation (ISO)

ISO 13623	Petroleum and natural gas industries - Pipeline transportation systems.
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3. Terms and definitions

For the purposes of this GP, the following terms and definitions apply:

TÜV

Technischer Überwachungsverein - Technical Inspection Association



4. Selection of codes and standards

4.1. General

- a. Design and operation of pipelines in which BP is the sole owner or operator shall be in accordance with this GP and all other pipeline Engineering Technical Practices.
- b. In all other cases this GP shall form the basis for comparison of BP's expectations with those proposed by partners or third party operators. Appropriate influence shall be applied to partners or operators to comply with these expectations.

Selection of the codes or standards to be used for pipeline design, construction, and operation is principally influenced by:

- *The country in which the pipeline is to be built.*
 - *Regulatory constraints.*
 - *Partner preferences.*
- c. The document identifies acceptable minimum standards to be applied to the project. This should be supplemented with the requirements of other pipeline Engineering Technical Practices, as necessary.
 - d. Code selection shall ensure that as far as possible, where the pipeline undergoing design is connected to an adjacent pipeline, that a common code is applied to both systems.

4.2. Regulatory authorities and national codes & standards

The overall process described in clause 4.2 is summarised in Figure 1.

