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Guidance on Practice for Heath, Safety, Security, and Environment (HSSE) during Pipeline Construction

GP 43-42

**BP GROUP
ENGINEERING TECHNICAL PRACTICES**

Foreword

This is the first issue of Engineering Technical Practice (ETP) BP GP 43-42. This Guidance on Practice (GP) is not derived from any heritage documents.

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Introduction

BP's goals with respect to health, safety, security, and the environment (HSSE) are simply stated:

- No accidents
- No harm to people
- No damage to the environment

It is recognised that these are difficult goals to achieve, particularly on the construction of long cross country pipeline projects in remote regions where there are the additional challenges of managing a number of different activities over significant distances in areas with limited access. Furthermore, there are often conflicts between the welfare of people and the protection of the environment. However, notwithstanding these difficulties, the project's HSSE aspirations and expectations must be fully aligned with BP's goals throughout the entire construction phase.

BP's Getting HSE Right (gHSEr), together with BP's Getting Security Right, set out the expectations and requirements for achievement of these goals, and these must be the guiding, overarching documents for the project. These, together with any National or local HSSE regulations, must form the basis of the Project's HSSE requirements.

The Golden Rules of Safety have been introduced to further clarify and detail safety requirements. Whilst originally developed for the Upstream business, these rules are now mandated throughout the BP Group. Hence, knowledge of and compliance with these safety rules is assumed on the part of readers of this document. Examples of where the Golden Rules of Safety are applicable and applied to pipelines are given in clause 8.

Increasingly environmental management systems are being set up in compliance with ISO 14001. This ensures that there is a consistency of approach within and between projects, which is highly visible to all stakeholders. It also ensures that environmental management systems and processes are open to third party audit and review.

With BP now operating in more remote and difficult regions of the world, with ever changing security situations, the web-based Group security guidelines should be continually monitored, particularly with respect to the requirements for International travel.



1. Scope

This document sets out the key HSSE requirements for the construction phase of an onshore or offshore pipeline project. This document should be read by project teams during the define and select phases of a project and should assist with HSSE requirements within the contract tender packages. This document should also be used during the execution phase by the management teams.

This document focuses on the high-risk areas that recent experience has shown to deliver HSSE success or, when omitted, failure on pipeline projects within BP. It is not intended to replicate the significant amount of more general HSSE documentation and guidance that is available on appropriate websites and in libraries. Shortcuts to reference HSSE documentation used on recent pipeline projects e.g. BTC, are included at the end of this document.

2. Normative references

The following normative documents contain requirements that, through reference in this text, constitute requirements of this technical practice.

BP

GP 43-30	Guidance on Practice for Environmental and Social Impact Assessment (ESIA) Preparation.
GP 43-32	Guidance on Practice for Pipe Handling Logistics.
GP 43-46	Guidance on Practice for Pipeline Pressure Testing and Pre-commissioning.
Getting HSE Right	Can be accessed via the BP website:
Getting Security Right	Can be accessed via the BP website:
Golden Rules of Safety	Can be accessed via the BP website:
BP Driving Standard	Can be accessed via the BP website:

International Organization for Standardization (ISO)

ISO 14001	Environmental management systems– Requirements with guidance for use.
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3. Symbols and abbreviations

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

ASA	Advanced Safety Audit
ESIA	Environmental and Social Impact Assessment
HiPo	High Potential incident, which is an incident or near miss, including a security incident, where the most serious <u>probable</u> outcome is a Major Incident.
HSSE	Health, safety, security and the environment
JMP	Journey Management Plan
MOC	Management of Change
PTW	Permit to Work



TRA Task Risk Assessment

Other commonly used BP HSSE definitions are on the following website:

[HSSE Definitions](#)

4. Leadership and accountability

4.1. Expectations and requirements

Project HSSE expectations and requirements shall be clearly stated, ensuring that these are aligned with gHSEr, Getting Security Right, the Golden Rules of Safety and, if appropriate, ISO 14001.

The construction phase of a pipeline project is probably the most critical in terms of HSSE. This is the first physical sign to the community at large that BP is committed to its stated goals and as a result there are significant reputational issues, with attendant risk to the Business, if actions do not match the words.

It is important that HSSE expectations be clearly stated, particularly those that are mandatory BP requirements (e.g. gHSEr). This also ensures that everyone acting on BP's behalf understands what these expectations are, supports how these are to be implemented, and performs accordingly.

It is equally important that Contractors not only understand the HSSE expectations and commit to their implementation but also appreciate the consequences of failure to comply e.g. safety stand-downs.

4.2. Commercial and schedule impact

- a. The commercial and schedule implications for compliance with HSSE expectations shall be understood and any conflicts shall be identified and managed accordingly.
- b. The cost and schedule accountability for compliance with the HSSE expectations shall be clearly defined and allocated appropriately between the various parties.

Ideally the project HSSE expectations align with Contractors' own HSSE policies and hence there should be minimal commercial and schedule impact for implementation. In any event, Contractors should be in no doubt that good HSSE practice is good business.

Whilst the primary responsibility for HSSE resides with the main Contractor(s), it is not always appropriate for the Contractor(s) to be held wholly accountable for all HSSE areas. If Governmental or third party agencies are involved, over which the Contractor(s) can have limited influence and control e.g. security services, costs should be borne by the project directly or be treated as reimbursable.

4.3. Leadership roles and responsibilities

- a. BP project personnel and Contractor leadership shall have clearly defined HSSE roles and responsibilities.
- b. HSSE leadership shall be carried out in a 'just' rather than a 'blame' culture.
- c. Leadership should be visible and accessible to the entire workforce throughout the construction phase.
- d. The importance of leadership throughout the construction phase should not be underestimated.

