

DEP SPECIFICATION

ONSHORE FABRICATION OF DEEPWATER PIPELINES, FLOWLINES, RISERS AND THEIR APPURTENANCES

DEP 37.81.41.30-Gen.

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ECCN EAR 99

DESIGN AND ENGINEERING PRACTICE



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The information set forth in these publications is provided to Shell companies for their consideration and decision to implement. This is of particular importance where DEPs may not cover every requirement or diversity of condition at each locality. The system of DEPs is expected to be sufficiently flexible to allow individual Operating Units to adapt the information set forth in DEPs to their own environment and requirements.

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All administrative queries should be directed to the DEP Administrator in Shell GSI.

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1. INTRODUCTION

1.1 SCOPE

This new DEP-Gen. covers onshore pipe for deepwater pipelines, flowlines and risers and related hardware and appurtenances, including piping for pipeline end terminations (PLETs or "sleds"), in-line sleds, jumpers and spool pieces. "Deep water" is generally defined as water depth in which diver access is not possible or impractical. For general purposes this depth is approximately 300 m (985 ft).

This DEP specifies the requirements for all onshore fabrication of pipe and pipe appurtenances as described in the Contract Scope of Work. However, the omission of any essential provisions from this document cannot be construed to relieve the Contractor of any duty or obligation necessary for the complete installation and testing of the facilities ready for use and operation.

This same DEP may be applied to onshore pipe fabrication for shallow water applications if so specified by the Principal. All requirements of this specification apply, unless a deviation for shallow water construction is specifically identified by the Principal. Where appropriate, the adjective "deep water" may then be removed from the specific language in this DEP.

This DEP covers the following main topics:

- Project Management
- Material and Handling Requirements
- Welding and NDE (refers to other applicable DEPs)
- Field Joint Coating (refers to other applicable DEPs)

This is a revision of the former Deepwater standard of the same number dated February 2010; see (1.5) regarding the changes.

NOTE: This DEP is often used in conjunction with DEP 37.81.41.33-Gen., for example to cover fabrication of stalks for subsequent reeling. This DEP may also be used without inclusion of DEP 37.81.41.33-Gen. in the Contract, e.g., if the Principal contracts separately for fabrication of double or quadruple joints. Therefore some overlap/duplication in requirements in these two DEPs may exist. If there are discrepancies that the Contractor notices, the Contractor shall notify the Principal for resolution. In general, where there are conflicting requirements or duplication, then the more stringent requirements apply unless agreed upon otherwise with the Principal.

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by Shell GSI, the distribution of this DEP is confined to Shell companies and, where necessary, to Contractors and Manufacturers/Suppliers nominated by them.

This DEP is intended for use in facilities related to deepwater pipeline, flowline and riser projects. Application in other situations may also apply.

When DEPs are applied, a Management of Change (MOC) process should be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements may be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regard to the safety, environmental, economic and legal aspects. In all cases the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this DEP as closely as possible.

1.3 DEFINITIONS

1.3.1 General definitions

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project or operation of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The **Principal** is the party that initiates the project and ultimately pays for it. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

1.3.2 Specific definitions

Term	Definition
Field Joint	A Field Joint is part of the pipeline where pipes have been welded together and where, as a consequence, there is a discontinuity in the pipe coating

1.3.2 Abbreviations

Term	Definition
AFC	Approved for Construction
API	American Petroleum Institute
EH	Electrically Heated
HSSE	Health, Safety, Security and Environment
ITP	Inspection Test Plan
NDE	Non Destructive Examination
PLET	Pipeline End Termination
PIP	Pipe in Pipe
SCR	Steel Catenary Riser
UT	Ultrasonic Inspection Testing
VIV	Vortex Induced Vibration

1.4 CROSS-REFERENCES

Where cross-references to other parts of this DEP are made, the referenced section number is shown in brackets (). Other documents referenced by this DEP are listed in (7).

1.5 SUMMARY OF MAIN CHANGES

This DEP is a revision of the former Deepwater standard of the same number dated February 2010 and has been formatted to DEP-Gen. The following are the main, non-editorial changes.

Old section	New section	Change
All	All	References to non-Gen (EPP or DWP). DEPs have been replaced by references to Gen DEPs or if such Gen DEPs do not exist, to Project Specific Specifications.
2	2	Removed Sections already addressed in Section V Administrative of the Contract.
4.9, 4.10	4.9, 4.10	Removed duplications of text already in referenced DEPs.
1.7	7	Updated reference list.

1.6 COMMENTS ON THIS DEP

Comments on this DEP may be sent to the Administrator at standards@shell.com, using the DEP Feedback Form. The DEP Feedback Form can be found on the main page of "DEPs on the Web", available through the Global Technical Standards web portal <http://www.shell.com/standards> and on the main page of the DEPs DVD-ROM.

1.7 DUAL UNITS

This DEP contains both the International System (SI) units, as well as the corresponding US Customary (USC) units, which are given following the SI units in brackets. When agreed by the Principal, the indicated USC values/units may be used.