

TECHNICAL SPECIFICATION

STEEL DRILL PIPE WITH WELD-ON TOOL JOINTS (AMENDMENTS/SUPPLEMENTS TO ISO 11961)

DEP 38.80.40.30-Gen.

August 2005

DESIGN AND ENGINEERING PRACTICE



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They are based on the experience acquired during their involvement with the design, construction, operation and maintenance of processing units and facilities, and they are supplemented with the experience of Group Operating companies. Where appropriate they are based on, or reference is made to, international, regional, national and industry standards.

The objective is to set the recommended standard for good design and engineering practice applied by Group companies operating an oil refinery, gas handling installation, chemical plant, oil and gas production facility, or any other such facility, and thereby to achieve maximum technical and economic benefit from standardization.

The information set forth in these publications is provided to users 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 companies to adapt the information set forth in DEPs to their own environment and requirements.

When Contractors or Manufacturers/Suppliers use DEPs they shall be solely responsible for the quality of work and the attainment of the required design and engineering standards. In particular, for those requirements not specifically covered, the Principal will expect them to follow those design and engineering practices which will achieve the same level of integrity as reflected in the DEPs. If in doubt, the Contractor or Manufacturer/Supplier shall, without detracting from his own responsibility, consult the Principal or its technical advisor.

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

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PART I INTRODUCTION

1.1 SCOPE

This new DEP specifies requirements and gives recommendations for new and refurbished steel drill pipes with weld-on tool joints.

Part II of this DEP gives amendments and supplements to ISO 11961, upon which this DEP is based.

NOTES: 1. API Spec 5D is equivalent to ISO 11961; API Spec 7 is equivalent to ISO 10424-1.
2. A new edition of ISO 11961 is currently in draft form and when issued will incorporate both API 5D and API 7 (both drillpipe and tooljoints).

1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by Shell GSI and SIEP, the distribution of this DEP is confined to companies forming part of the Royal Dutch/Shell Group or managed by a Group company and, where necessary, to Contractors and Manufacturers nominated by them.

This DEP is intended for use in oil and gas exploration and field development.

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 as regards 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 with the object of obtaining agreement to follow this DEP as closely as possible.

1.3 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 or maintenance 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 its design and construction. The Principal will generally specify the technical requirements. 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.

1.4 GUIDANCE FOR USE

Part II of this DEP gives amendments and supplements to ISO 11961:1996.

For ease of reference, the clause numbering of ISO 11961 has been used in Part II of this DEP. Clauses in ISO 11961 which are not mentioned shall remain valid as written.

1.5 COMMENTS ON THIS DEP

Comments on this DEP may be sent to the DEP Administrator at standards@shell.com. Shell staff may also post comments on this DEP on the Surface Global Network (SGN) under the Standards/DEP 38.80.40.30-Gen. folder. The DEP Administrator and DEP Author monitor these folders on a regular basis.

PART II AMENDMENTS/SUPPLEMENTS TO ISO 11961

1. SCOPE

1.3 *Add to this clause:*

Specifications NS-1 and NS-2 **or** DS-1 (Vol. 1, Vol 2 and Vol. 3) shall also apply.

The Principal shall specify to the Manufacturer/Supplier which of these specifications shall be applied

If DS-1 Volume 1 (Manufacturing) is applied, the Principal shall specify whether the application is " Standard Level" or "Critical Level".

If DS-1 Volume 2 (Design) is applied, the Principal shall select "Design Group" (specifying the design factors, design constraints and inspection requirements.

If DS-1 Volume 3 (Inspection) is applied, the Principal shall select "Inspection Category" (specifying the methods, procedures and acceptance criteria).

PART III REFERENCES

In this DEP, reference is made to the following publications:

- NOTES:
1. Unless specifically designated by date, the latest issue of each publication shall be used together with any amendments/supplements/revisions thereto.
 2. The DEPs and most referenced external standards are available for Shell users on the SWW (Shell Wide Web) at address <http://sww05.europe.shell.com/standards/>

AMERICAN STANDARDS

Specification for drill pipe	API Spec 5D
Specification for rotary drill stem elements	API Spec 7

Issued by:
American Petroleum Institute
Publications and Distribution Section
1220 L Street Northwest
Washington DC 20005
USA

INTERNATIONAL STANDARDS

Petroleum and natural gas industries - Steel pipes for use as drill pipe - Specification	ISO 11961:1996
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Petroleum and natural gas industries – Rotary drilling equipment – Rotary drill stem elements	ISO 10424-1
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Issued by:
International Organisation for Standardization
Case Postale 56
Geneva 20
Switzerland CH-1211.

Copies can also be obtained from national standards organizations.

OTHER STANDARDS

Drilling tubular product specification	DS-1 Vol.1
Drill stem design and operation	DS-1 Vol 2
Drill stem inspection	DS-1 Vol.3

Issued by:
T H Hill Associates, Inc.
7676 Hillmont, Ste. 360
Houston, Texas 77040
USA

<http://www.thhill.com>

Quality and inspection requirements for new and refurbished drilling and well completion equipment	NS-1
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Drillstring inspection standard (used drilling equipment)	NS-2
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Issued by:
Fearnley Procter UK Ltd
Peregrine Road
Westhill Business Park
Aberdeen AB32 6JL
UK

<http://www.fearnleyprocter.com>