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Petroleum and natural gas industries - Design and operation of subsea production systems - Part 8: Remotely operated tools and interfaces on subsea production systems (ISO/DIS 13628-8:2010)

iTeh STANDARD PREVIEW
Erdöl- und Erdgasindustrie - Auslegung und Betrieb von Unterwasser-Fördersystemen -Teil 8: Fernbetätigte Werkzeuge und Schnittstellen auf Unterwasser-Produktionsanlagen (ISO/DIS 13628-8:2010)

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Industries du pétrole et du gaz naturel . Conception et exploitation des systèmes de production immergés - Partie 8: Dispositifs à commande à distance et interfaces avec les systèmes de production immergés (ISO/DIS 13628-8:2010)

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Erdöl- und Erdgasindustrie - Auslegung und Betrieb von Unterwasser-Fördersystemen - Teil 13: Fernbetätigte Werkzeuge und Schnittstellen auf Unterwasser-Produktionsanlagen (ISO/DIS 13628-8:2010)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 12.

If this draft becomes a European Standard CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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prEN ISO 13628-8:2010 (E)

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iTeh STANDARD PREVIEW (standards.iteh.ai)

prEN ISO 13628-8:2010 (E)

Foreword

This document (prEN ISO 13628-8:2010) has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" in collaboration with Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" the secretariat of which is held by AFNOR.

This document is currently submitted to the parallel Enquiry.

This document will supersede EN ISO 13628-8:2006.

Endorsement notice

The text of ISO/DIS 13628-8:2010 has been approved by CEN as a prEN ISO 13628-8:2010 without any modification.

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Petroleum and natural gas industries — Design and operation of subsea production systems —

Part 8:

Remotely operated tools and interfaces on subsea production systems

Industries du pétrole et du gaz naturel — Conception et exploitation des systèmes de production immergés — Partie 8: Dispositifs à commande à distance et interfaces avec les systèmes de production immergés

[Revision of first edition (ISO 13628-8:2002) and first edition of (ISO 13628-9:2000)]

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ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

In accordance with the provisions of Council Resolution 15/1993 this document is circulated in the English language only.

Conformément aux dispositions de la Résolution du Conseil 15/1993, ce document est distribué en version anglaise seulement.

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ISO/DIS 13628-8

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13628-8 was prepared by Technical Committee ISO/TC 67, Materials, equipment and offshore structures for the petroleum, petrochemical and natural gas industries, Subcommittee SC 4, Drilling and production equipment.

This second edition cancels and replaces the first edition and includes *Part 9*: Remotely Operated Tool (ROT) intervention systems. When accepted as ISO 13628-8, part 9 will be deleted.

ISO 13628 consists of the following parts, under the general title Petroleum and natural gas industries — Design and operation of subsea production systems standards/sist/cec9078-81b1-4107-99c9-

640f05e63132/osist-pren-iso-13628-8-2011

- Part 1: General requirements and recommendations
- Part 2: Flexible pipe systems for subsea and marine applications
- Part 3: Through flowline (TFL) systems
- Part 4: Subsea wellhead and tree equipment
- Part 5: Subsea umbilicals
- Part 6: Subsea production control sytems
- Part 7: Completion/workover riser systems
- Part 8: Remotely Operated Vehicle (ROV) interfaces on subsea production systems
- Part 9: Remotely Operated Tool (ROT) intervention systems (combined into Part 8)
- Part 10: Specification for bonded flexible pipe
- Part 11: Flexible pipe systems for subsea and marine applications
- Part 12: Dynamic production risers (under preparation)
- Part 13: Vacant

- Part 14: Vacant
- Part 15: Subsea structures and man ifolds (under preparation)
- Part 16: Recommended practice for flexib le pipe ancilliary equipment (under preparation)
- Part 17: Specification for flexible pipe ancillary equipment (under preparation)

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Introduction

The part of ISO-13628 has been prepared to provide general recommendations and overall guidance for the designa and operation of remotely operated tools comprising ROT and ROV tooling, used on subsea production systems for the petroleum and natural gas industries worldwide.

Specific design requirements are used where a standard design or operating principle has been adopted in the industry for a period of time. Requirements valid for certain geographic areas or environmental conditions, are included where applicable.

The functional recommendations for the tooling systems and interfaces on the subsea production system allow alternative solutions to suite field specific requirements. The intention is to facilitate and complement the decision process rather than replace individual engineering judgement and, where requirements are non-mandatory, to provide positive guidance for hte selection of an optimum solution.

iTeh STANDARD PREVIEW (standards.iteh.ai)

Petroleum and natural gas industries — Design and operation of subsea production systems —

Part 8:

Remotely operated tools and interfaces on subsea production systems

1 Scope

This part of ISO 13628 provides recommendations for development and design of remotely operated subsea tools and interfaces on subsea production systems in order to maximise the potential of standardising equipment and design principles.

This part of ISO 13628 does not cover manned intervention, vertical wellbore intervention, internal flowline inspection, tree running and tree running equipment. However, all the related subsea ROV/ROT interfaces are covered by this standard. It is applicable to the selection, design and operation of ROTs and ROVs including ROV tooling, hereafter defined in a common term as subsea intervention systems.

Also, the standard covers subsea intervention system interfaces on all parts of a subsea production system.

Intervention systems used for internal wellbore intervention, and the ROV system itself are not part of the scope of this standard.

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2 Normative references.iteh.ai/catalog/standards/sist/cec907f8-81b1-4107-99c9-

640f05e63132/osist-pren-iso-13628-8-2011

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 13628-1, Petroleum and natural gas industries – Design and operation of subsea production systems – Part 1"General requiremetns and recommendations

NOTE API RP 17A:2006, Design and operation of subsea production systems – General requirements and recommendations is a direct adoption of ISO 13628-1:2006, and equivalent in content.

ISO/TS 29001, Petroleum, petrochemical and natural gas industries – Sector specific requirements – Requirements for product and service supply organizations

ISO 9001:2000, Quality management systems

API SPEC 17D, Specification for subsea wellhead and christmas tree equipment

API Q1, Specification for Quality Programs for the Petroleum, Petrochemical and Natural Gas Industry

ASNT TC 1A, Recommended Practice and ASNT Standard Topical Outlines for Qualification of Nondestructive Testing Personnel

DNV 2.7-1, Standard for certification - Offshore containers

BS 7172-2, Code of practice for safe use of cranes – Part 2: Inspection, testing and examination