Kodningssystem for standardomkostninger for produktions- og forarbejdningsfaciliteter til olie og gas

Standard cost coding system for oil and gas production and processing facilities (ISO 19008:2016)

DANSK STANDARD
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EUROPEAN STANDARD EN ISO 19008

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English Version

Standard cost coding system for oil and gas production and processing facilities (ISO 19008:2016)

Système de codage des coûts standard pour les installations de production et de traitement du pétrole et du gaz (ISO 19008:2016)

Standardkosten-Codierungssystem für die Öl- und Gasproduktion und Verarbeitungsanlagen (ISO 19008:2016)

This European Standard was approved by CEN on 26 January 2018.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Page

European foreword

The text of ISO 19008:2016 has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 19008:2018 by Technical Committee CEN/TC 12 “Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries” the secretariat of which is held by NEN and CYS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

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

This document is intended to be applicable to the petroleum, petrochemical and natural gas industries. However, it is recognized that several different perspectives of costs can be identified in order to meet either internal or external requirements of each organization. Current data processing and information integration standards are developing. This has been reflected in the underlying design principles for faceted classification systems included in this document. However, the actual coding and classifications in the first edition of this document have not been established to take account of all these principles.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 19008:2016 has been approved by CEN as EN ISO 19008:2018 without any modification.

INTERNATIONAL ISO

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Standard cost coding system for oil and gas production and processing facilities

Système de codage du coût standard pour la production de gaz et d'huile, et des installations de traitement

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Contents

Page

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*.

Introduction

This International Standard provides the specifications for a standard cost coding system (SCCS) to be used for classification of costs associated with the development and operation of oil and gas production and processing facilities.

The purpose of the SCCS is to enable the costs of exploration, development projects and operations to be organized, collected and reported allowing analysis and comparison across (parts of) projects and assets.

This International Standard is designed to provide a uniform coding basis for both estimate preparation and collecting/collating related historical data in order to facilitate benchmarking and analysis. It is also intended to provide the basis for exchange of cost and quantity data between parties, e.g. between companies or contractors or across projects.

This International Standard establishes a coding system that enables any in-house or commercial data system to meet these data exchange requirements.

The SCCS may also be utilized to capture consistent data for physical quantities, e.g. weight, length, areas, volumes, flow rate, work hours and durations. This will facilitate the development and measure of unit costs and cost metrics.

The scope of work that is being classified has three key aspects (also known as facets) namely, physical asset [coded by the physical breakdown structure (PBS)], activity [coded by the standard activity breakdown structure (SAB)] and resource [coded by the code of resource (COR)].

Hence the SCCS is composed of three complementary and disjoint sub-classifications, each one dealing with one of the aspects. This is technically known as a poly-hierarchical or faceted classification system.

The main body of this International Standard contains the principles and usage of the SCCS. It also includes implementation requirements for the expansion of the coding system by individual organisations.

The annexes include:

— the SCCS codes their names and description;

— examples of use of the codes.

Application of ISO 19008 can also be useful when performing production assurance, reliability management and Life Cycle Cost (LCC) analysis; see ISO 20815, ISO 14224 and ISO 15663.

1 Scope

This International Standard describes the standard cost coding system (SCCS) that classifies costs and quantities related to exploration, development, operation and removal of oil and gas production and processing facilities and to the petroleum, petrochemical and natural gas industry. Upstream, midstream, downstream and petrochemical business categories are included.

The SCCS for coding of costs is applicable to:

— cost estimating;

— actual cost monitoring and reporting;

— collection of final quantities and cost data;

— standardized exchange of cost data among organizations;

— implementation in cost systems.

This International Standard is intended for users such as the following:

a) owner/operator/company (individual or grouped entity that is entitled or contributes to operations in the exploitation of oil and gas fields);

b) industry/trade associations;

c) manufacturers/contractors;

d) cost engineering service contractors, cost system providers, benchmarking providers, etc.;

e) authorities/regulatory bodies.

This International standard does not apply to the following:

1) cost classification relevant to cost accounting rules, specific contractual agreements, local requirements for cost reporting to national bodies, government rules and tax regulations, authorization for expenditure (AFE), billing purposes etc.;

2) specific project breakdown structures (e.g. work breakdown structures, contract breakdown structures, organizational breakdown structure) or asset breakdowns (e.g. TAG/system codes, area/module breakdown structure) which are and will remain unique.

However, this International Standard can provide a basis for the establishment of such specific classification systems.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1
code of resource
COR
hierarchical structure of SCCS that classifies all project resources according to the type of contract/resource that is involved in the activity and has an associated set of rates

2.2
cost item
particular part/level that is coded/classified using the SCCS

EXAMPLE "Procurement of piping" would be a cost item in the "development of facility X".

2.3
cost time resource
CTR
document that describes each major element in the work breakdown structure, including a statement of work describing the work content, resources required, the time frame of the work element and a cost estimate

2.4
faceted classification system
collection of facet classifications that allows the classification of an object

EXAMPLE This International Standard specifies a faceted classification system for objects used in cost estimating for oil and gas production and processing facilities.

2.5
scope of work
SOW
division of work to be performed under a formal agreement (project assignment), contract or subcontract in the completion of a project

2.6
physical breakdown structure
PBS
hierarchical structure of SCCS that defines the types of physical asset components of field installations being delivered by the activity

2.7
standard cost coding system
SCCS
standard system for classification and coding cost estimates, monitoring and final quantities and cost data

Note 1 to entry: The SCCS code comprises three individual hierarchical coding structures named PBS, SAB, COR, each based upon a different aspect/facet of the scope of work.

2.8
standard activity breakdown structure
SAB
hierarchical structure of SCCS that defines the type of activity that is being performed