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2D-CAD drawing standard

2D CAD tegnings standard

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Foreword

NORSOK Z-005:2021 was adopted as NORSOK Standard 2021-12-31.

NORSOK Z-005:2021 supersedes NORSOK Z-005 Rev. 1, Oct 1997.

NORSOK is an acronym for the competitive position of the Norwegian continental shelf and comprise petroleum industry standards in Norway. The collaboration initiative in 1993 between the authorities and the petroleum industry initiated the development of NORSOK standards.

Reducing the project execution time and developing and operating cost for petroleum installations on the Norwegian shelf was the target.

The intention for the Petroleum industry is to develop and use standards providing good technical and cost effective solutions to ensure that the petroleum resources are exploited and managed in the best possible way by the industry and the authorities. The industry will actively contribute to the development and use of international standards in the global market.

The NORSOK standards shall:

- bridge the gap based on experiences from the Norwegian continental shelf where the international standards are unsatisfactorily;
- replace oil company specifications where possible;
- be available as references for the authorities' regulations;
- be cost effective; and
- promote the Norwegian sector as an attractive area for investments and activities.

Developing new NORSOK standards and regular maintenance of existing standards shall contribute to maintain the competitiveness both nationally and internationally for the Norwegian petroleum industry.

The NORSOK standards are developed by experts from the Norwegian petroleum industry and approved according to the consensus principles as laid down by the guidelines given in NORSOK A-001 directive.

The NORSOK standards are owned by the Norwegian Oil and Gas Association, the Federation of Norwegian Industries and the Norwegian Shipowners' Association. They are managed and published by Standards Norway.

Information about the current edition:

- The document has been revised and updated.
- Deleted clause 4, clause 7 and the annexes in the previous edition.
- Legend for special lines in previous C.3 was moved to [NORSOK Z-004](#).

Introduction

The different CAD environments in the petroleum industry are evolving rapidly and often in different directions. Considerable cost reductions have been identified by standardization of file formats and methods of work. NORSOK organized a workgroup to recommend a standard for drawing file formats. The goal was to enable file transfers and conversions between different formats without problems.

This standard may not be optimal for all working environments but aims at the main goal of creating one common standard.

The goal was to enable transfers and conversions between different systems without problems. This will result in:

- unified understanding of file structure and formats;
- file transfer without problems;
- simplified data file conversion of drawings between different CAD systems.

The bibliography lists standards, norms, laws, regulations and other literature that may be relevant to the use of this document.

Normative text contains the requirements of the standard. Informative text is only guidance to the reader. All text in foreword, introduction and notes is informative text. Note to entries in clause 3 may be either normative or informative.