SLOVENSKI STANDARD
SIST EN ISO 3977-5:2004

01-maj-2004

Plinske turbine - Nabava - 5. del: Uporaba v industriji za predelavo nafte in zemeljskega plina (ISO 3977-5:2001)

Gas turbines - Procurement - Part 5: Applications for petroleum and natural gas industries (ISO 3977-5:2001)

Gasturbinen - Beschaffung - Teil 5: Anwendungen in der Erdöl- und Erdgasindustrie (ISO 3977-5:2001)

Turbines a gaz - Spécifications pour l'acquisition - Partie 5: Applications pour les industries du pétrole et du gaz naturel (ISO 3977-5:2001)

Ta slovenski standard je istoveten z: **EN ISO 3977-5:2003**

ICS:

27.040	Plinske in parne turbine. Parni stroji	Gas and steam turbines. Steam engines
75.180.20	Predelovalna oprema	Processing equipment

SIST EN ISO 3977-5:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 3977-5

February 2003

ICS 27.040; 75.180.10; 75.180.20

English version

Gas turbines - Procurement - Part 5: Applications for petroleum and natural gas industries (ISO 3977-5:2001)

Turbines à gaz - Spécifications pour l'acquisition - Partie 5: Applications pour les industries du pétrole et du gaz naturel (ISO 3977-5:2001)

Gasturbinen - Beschaffung - Teil 5: Anwendungen in der Erdöl- und Erdgasindustrie (ISO 3977-5:2001)

This European Standard was approved by CEN on 18 December 2002.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN ISO 3977-5:2003 E

Foreword

The text of ISO 3977-5:2001 has been prepared by Technical Committee ISO/TC 192 "Gas turbines" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 3977-5:2003 by Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum and natural gas industries", the secretariat of which is held by AFNOR.

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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 3977-5:2001 has been approved by CEN as EN ISO 3977-5:2003 without any modifications.

INTERNATIONAL STANDARD

ISO 3977-5

First edition
2001-12-15

Gas turbines — Procurement —

Part 5: Applications for petroleum and natural gas industries

Turbines à gaz — Spécifications pour l'acquisition —

Partie 5: Applications pour les industries du pétrole et du gaz naturel

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 part of ISO 3977 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 3977-5 was prepared by Technical Committee ISO/TC 192, *Gas turbines*, in collaboration with Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum and natural gas industries*, Subcommittee SC 6, *Processing equipment and systems*. Documents taken into account in the development of ISO 3977 include API STD 616, API RP 11PGT and the ASME B133 series of documents.

ISO 3977 consists of the following parts, under the general title *Gas turbines — Procurement*:

— *Part 1: General introduction and definitions*

— *Part 2: Standard reference conditions and ratings*

— *Part 3: Design requirements*

— *Part 4: Fuels and environment*

— *Part 5: Applications for petroleum and natural gas industries*

— *Part 6: Combined cycles*

— *Part 7: Technical information*

— *Part 8: Inspection, testing, installation and commissioning*

— *Part 9: Reliability, availability, maintainability and safety*

Introduction

Users of this part of ISO 3977 should be aware that further or differing requirements may be needed for individual applications. This part of ISO 3977 is not intended to inhibit a packager from offering, or the purchaser from accepting, alternative equipment or engineering solutions for the individual application. This may be particularly applicable where there is innovative or developing technology. Where an alternative is offered, the packager should identify any variations from this part of ISO 3977 and provide details.

Gas turbines — Procurement —

Part 5:
Applications for petroleum and natural gas industries

1 Scope

This part of ISO 3977 specifies requirements and gives recommendations for the design, materials, fabrication, inspection, testing and preparation for shipment of packaged gas turbines for use in drilling, production, refining and the transport by pipelines of petroleum and natural gas. It is applicable to the procurement of gas turbines and gas turbine systems, including gas turbines for combined cycle systems, and their auxiliaries by a purchaser from a packager.

This part of ISO 3977 is not intended to deal with local or national legislative requirements to which the installation may be required to conform.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 3977. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 3977 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 3977-1, *Gas turbines — Procurement — Part 1: General introduction and definitions*

ISO 3977-2, *Gas turbines — Procurement — Part 2: Standard reference conditions and ratings*

ISO 3977-3, *Gas turbines — Procurement — Part 3: Design requirements*

ISO 3977-4, *Gas turbines — Procurement — Part 4: Fuels and environment*

ISO 3977-7, *Gas turbines — Procurement — Part 7: Technical information*

ISO 3977-8, *Gas turbines — Procurement — Part 8: Inspection, testing, installation and commissioning*

ISO 3977-9, *Gas turbines — Procurement — Part 9: Reliability, availability, maintainability and safety*

ISO 11086, *Gas turbines — Vocabulary*

3 Terms and definitions

For the purposes of this part of ISO 3977, the terms and definitions given in ISO 11086, ISO 3977-1, ISO 3977-3, ISO 3977-4, ISO 3977-8 and ISO 3977-9 apply.