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Gas turbines — Acceptance tests

Turbines à gaz — Essais de réception



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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 2314 was prepared by Technical Committee ISO/TC 192, *Gas turbines*.

This third edition cancels and replaces the second edition (ISO 2314:1989), which has been technically revised. It also incorporates the Amendment ISO 2314:1989/Amd.1:1997 and the Technical Corrigendum ISO 2314:1989/Cor.1:1997.

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Introduction

This International Standard specifies guidelines and procedures for preparing, conducting and reporting thermal-acceptance tests in order to determine and/or verify electrical power output, mechanical power, thermal efficiency (heat rate), turbine exhaust gas energy and/or other performance characteristics of gas-turbine power plants and gas turbine engines, in this International Standard referred to as "gas turbines". It is necessary that such performance test results be determined with a high level of accuracy using best engineering knowledge and industry practice in measurement technique and method.

It is necessary that a detailed, project-specific or test-equipment-specific test procedure be prepared by the party executing the performance test, based on the recommendations and guidelines given in this International Standard as well as considering contractual obligations. It is necessary that any deviations from this International Standard be mutually agreed upon by the involved parties prior to the start of the test.