

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Guidelines for commissioning and operation of hydraulic turbines,
pump-turbines and storage pumps**

**Lignes directrices pour la mise en service et l'exploitation des turbines
hydrauliques, des pompes-turbines et des pompes d'accumulation**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**GUIDELINES FOR COMMISSIONING AND OPERATION OF HYDRAULIC
TURBINES, PUMP-TURBINES AND STORAGE PUMPS**

FOREWORD

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International Standard IEC 60545 has been prepared by IEC technical committee 4: Hydraulic turbines.

This second edition cancels and replaces the first edition published in 1976 and the first edition of IEC 60805 published in 1985. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the focus is on the commissioning and operation of the hydraulic machine. Interfaces to the electric machine are mentioned only for a better understanding of the context;
- b) the definitions of tests for commissioning and adjustable speed are updated to state of the art;
- c) the record sheets 'measurements during erection' are excluded (see IEC 63132 (all parts));
- d) the maintenance is excluded (see IEC 62256).

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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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