

AMERICAN NATIONAL STANDARD

Procurement Standard for

Gas Turbine Ratings and Performance

ANSI B133.6 - 1978

REAFFIRMED 1994

FOR CURRENT COMMITTEE PERSONNEL
PLEASE SEE ASME MANUAL AS-11

SECRETARIAT

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

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FOREWORD

The purpose of the B133 standards is to provide criteria for the preparation of gas turbine procurement specifications. These standards will also be useful for response to such specifications.

The B133 standards provide essential information for the procurement of gas turbine power plants. They apply to open cycle, closed cycle, and semi-closed cycle gas turbines with conventional combustion systems for industrial, marine, and electric power applications. Auxiliaries needed for proper operation are covered. Not included are gas turbines applied to earth moving machines, agricultural and industrial-type tractors, automobiles, trucks, buses and aeropropulsion units.

For gas turbines using unconventional or special heat sources (such as: chemical processes, nuclear reactors, or furnaces for supercharged boilers), these standards may be used as a basis; but appropriate modifications may be necessary.

The intent of the B133 standards is to cover the normal requirements of the majority of applications, recognizing that economic trade-offs and reliability implications may differ in some applications. The user may desire to add, delete or modify the requirements in this standard to meet his specific needs, and he has the option of doing so in his own procurement specification.

The B133.6 standard provides a basis for a completely defined set of ratings, such that comparisons made among alternative gas turbines can reflect significant differences in performance. Performance under both standard conditions and site conditions are covered. Standard conditions are established that are compatible with ISO 2314, Gas Turbines-Acceptance Tests and with ISO 3977, Gas Turbines-Procurement.

Suggestions for improvement of this standard will be welcome. They should be sent to the American Society of Mechanical Engineers, United Engineering Center, 345 East 47th Street, New York, NY 10017.

American National Standard B133.6 was approved by the B133 Standards Committee and final approval by the American National Standards Institute was granted on November 28, 1978.

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Procurement Standards for Gas Turbines

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