



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
COMBUSTION GAS TURBINES

NPCS-MS-RE-15

REVISION : 0

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MODIFICATION TO API 616

The following paragraphs specifying the modifications follow the API 616, second edition and each paragraph denotes an addition, substitution or deletion.

(Substitution)

The API Standard clause is deleted and replaced by the new clause.

(Deletion)

The API Standard clause is deleted without any replacement.

(Addition)

A new clause with a new number is added.

(Modification)

Part of the API Standard clause is modified, and/or a new description and/or condition is added to that clause.

2

SECTION I - GENERAL

1.1

SCOPE (SUBSTITUTION)

1.1.1

This standard defines the minimum requirements for open, simple, and regenerative cycle combustion gas turbines for use in process plants/pipelines services as mechanical drive, generator drive, or process gas generation. All necessary auxiliary equipment is included either directly or by reference in this standard.

1.1.2

No deviations or exceptions from this standard shall be permitted without the written approval of purchaser. Intended deviations shall be listed by vendor on a separate sheet of paper at the time of bids and supported by reasons for consideration by purchaser.

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- 1.1.3 Compliance with this standard shall not relieve the vendor of the responsibility of furnishing equipment and auxiliaries of proper design, materials and workmanship to meet the specified start-up and operating conditions.

3 SECTION II - BASIC DESIGN

2.1 GENERAL CONDITIONS

2.1.7 (Substitution)

The maximum permissible sound level shall not exceed 85 dBA measured at 1 m from turbine surface for the recommended range of operation.

2.1.10 (Modification)

Clearance areas and suggested maintenance areas shall be marked in the lay-out drawing which will be submitted in the proposal.

2.1.14 (Modification)

Vendor shall furnish, in the proposal, a list of all components of gas turbine and auxiliaries which will require regular periodical inspection and maintenance. Procedure for inspection, and handling the equipment components (for maintenance) shall be fully described. Weight and dimensions of components which need to be dismantled and transported for the purpose of inspection/maintenance shall be indicated in the proposal. Vendor shall make recommendations as to the maintenance facilities to be provided by purchaser.

2.1.17 (Substitution)

For the type of installations and weather/environmental conditions, vendor shall refer to technical data sheets attached to enquiry or order.

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