



International Standard

ISO 20816-2

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**AMENDMENT 1
2024-06**

Mechanical vibration — Measurement and evaluation of machine vibration —

Part 2:

**Land-based gas turbines, steam
turbines and generators in excess of
40 MW, with fluid-film bearings and
rated speeds of 1 500 r/min, 1 800
r/min, 3 000 r/min and 3 600 r/min**

AMENDMENT 1

Vibrations mécaniques — Mesurage et évaluation des vibrations de machines —

Partie 2: Turbines à gaz, turbines à vapeur et alternateurs à paliers à film fluide excédant 40 MW pour applications terrestres, avec des vitesses nominales de fonctionnement de 1 500 r/min, 1 800 r/min, 3 000 r/min et 3 600 r/min

AMENDEMENT 1



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This document was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 2, *Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures*.

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Mechanical vibration — Measurement and evaluation of machine vibration —

Part 2:

Land-based gas turbines, steam turbines and generators in excess of 40 MW, with fluid-film bearings and rated speeds of 1 500 r/min, 1 800 r/min, 3 000 r/min and 3 600 r/min

AMENDMENT 1

Scope, 1st paragraph, 2nd sentence

Replace the sentence with the following:

"The criteria provided in this document can be applied to the vibration of the gas turbine, steam turbine and generator and other shaftline components (such as synchronizing clutches, exciters or flywheel masses)."

Scope, 3rd paragraph, iii)

Replace the list item with the following:

"steam turbines and/or generators with outputs less than or equal to 40 MW or with rated speeds other than 1 500 r/min, 1 800 r/min, 3 000 r/min or 3 600 r/min (although generators seldom fall into this latter category) (see ISO 20816-3);"

Scope, 3rd paragraph, iv)

Replace list item with the following:

"gas turbines with outputs less than or equal to 40 MW or with rated speeds other than 1 500 r/min, 1 800 r/min, 3 000 r/min or 3 600 r/min (see ISO 20816-3 or ISO 20816-4);"

Bibliography

Delete References [5] and [6].

Replace References [7] and [8] with the following:

"[7] ISO 20816-3, *Mechanical vibration — Measurement and evaluation of machine vibration — Part 3: Industrial machinery with a power rating above 15 kW and operating speeds between 120 r/min and 30 000 r/min*

[8] ISO 20816-4, *Mechanical vibration — Measurement and evaluation of machine vibration — Part 4: Gas turbines in excess of 3 MW, with fluid-film bearings*"



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