

ISO 20806:2009-09 (E)

Mechanical vibration - Criteria and safeguards for the in-situ balancing of medium and large rotors

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 In-situ balancing	2
4.1 General	2
4.2 Reasons for in-situ balancing	2
4.3 Objectives of in-situ balancing	3
5 Criteria for performing in-situ balancing	3
6 Safeguards	4
6.1 General	4
6.2 Safety of personnel while operating close to a rotating shaft	4
6.3 Special operating envelope for in-situ balancing	4
6.4 Integrity and design of the correction masses and their attachments	4
6.5 Machinery-specific safety implications	5
7 Measurements	5
7.1 Vibration measurement equipment	5
7.2 Measurement errors	6
7.3 Phase reference signals	6
8 Operational conditions	8
9 Reporting	8
9.1 General	8
9.2 Report introduction	8
9.3 Vibration measurement equipment	9
9.4 Results	9
9.5 Text information	11
Annex A (normative) Precautions and safeguards for specific machine types during in-situ balancing	12
Annex B (informative) Example of an in-situ balancing report for a boiler fan < 1 MW	13
Annex C (informative) Example of an in-situ balancing report for a large > 50 MW turbine generator set	17
Bibliography	23