ISO 2314:2009-12 (E)

Gas turbines - Acceptance tests

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 2

3 Terms and definitions 3

4 Test boundary 6

5 Symbols 8

6 Preparation for tests 12
6.1 General 12
6.2 Test procedure 13
6.3 Test preparation 14
6.4 Instruments and measuring methods 16

7 Conductance of test 29
7.1 Specified reference conditions 29
7.2 Preliminary checks 32
7.3 Starting and stopping of tests 32
7.4 Operation prior and during test 33
7.5 Duration of tests 35
7.6 Maximum permissible variations in operating conditions 35
7.7 Test records 36
7.8 Test validity 37

8 Computation of results 37
8.1 Performance test results 37
8.2 Correction of test results to reference conditions 40
8.3 Other gas turbine performance parameters 46

9 Test report 55

Annex A (informative) Uncertainty 56

Annex B (informative) Example calculation of exhaust mass flow rate and turbine inlet temperature energy balance calculation 68

Bibliography 106