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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22198-2008

Acceptance tests for steam turbine speed control systems

汽轮机转速控制系统验收试验

(English Translation)

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Foreword

This standard is identical with IEC 61064:1991 "turbine speed control system acceptance test" (in English).

This standard is equivalent translation IEC 61064:1991.

For ease of use, this standard made the following editorial changes.

- a) Remove IEC 61063:1991 original "preface" and so on;
- b) to IEC 61064:1991 in the original part of the body (such as. terminology, etc.), according to China described the proper habits when compiled and unity;
- c) to IEC 61064:1991 Part of the original chart will be recompiled.

Appendix A of this standard is a normative appendix.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Standardization Technical Committee turbine (SAC/TC172) centralized.

This standard was drafted. Shanghai Power Equipment Research Institute, Xi'an Thermal Power Research Institute Co., Ltd.

1 Scope and purpose

This standard applies acceptance test driven alternator speed in a given power plant turbine speed control system. Speed \u200bu200bcontrol system System includes speed control system and overspeed protection system. For other types of turbines, all suitable may be used.

Turbine speed control system and overspeed protection system acceptance test purpose is to verify the manufacturer to ensure that the indicators proposed in the book. through Often, this test is to verify these indicators and GB/T 5578 standard compliance. These indicators may include.

- a) speed droop;
- b) local speed droop;
- c) When an empty load, corresponding to the lower limit of the speed range synchronizer;
- d) slow rate of speed control system;
- e) stability of the speed control system;
- F) After the rejection to the part load and full load in the speed control system, the maximum instantaneous speed increases value;
- g) overspeed shutoff setting value;
- h) speed control system malfunction thrown under maximum instantaneous speed value to full load after.

Other test procedures and selection of pilot projects not included in this standard, agreed upon by both parties.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 5578-2007 stationary power generation steam turbine specification (IEC 60045-1:1991, MOD)

3 Terminology, symbols, definitions and units

The standard recommended in Table 1, the symbols given in Table 2 and Figure 1, definitions and units. Table 1 lists the basic terminology, symbols and units,

Table 2 shows the terminology, symbols, definitions and units of this standard specific parameters. Definitions GB/T 5578-2007 are also suitable.

Table 1

Symbol	Unit	No. term
		Power or load
		Pressure
		Temperature
		Angular velocity
		angularspeed
		Speed
		rotationalspeed
		Voltage
		Current
		Oil Motive position or stroke
		positionorstrokeofservomotors
		Valve position or stroke
		positionorstrokeofvalves
		Wrong throttle position or stroke
		positionorstrokeofpilots
		Characteristic time constant of the time,
		members of the timeconstant, characteristictimeofel-ement
		MW or kW
		MPa or bar
		K or °C
		rad/s
		Hz, r/s (r/min)
		mm, rad or (°)
		mm, rad or (°)
		mm, rad or (°)
		GB/T 22198-2008/IEC

61064:1991