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

GB/T 2900.103-2020

**Electrotechnical terminology - Generation, transmission and
distribution of electrical energy - Dependability and quality of
service of electric power systems**

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Foreword

GB/T 2900 "Electrical Terms" is divided into several parts.

This part is Part 103 of GB/T 2900.

The translation method used in this part is equivalent to the use of IEC 60050-692.2017, International Electrotechnical Vocabulary Part 692. Generation and transmission of electrical energy

And distributed power system reliability and service quality."

The following editorial changes have been made in this section.

--- Modify the standard name to "Electrician Terminology Generating, Transmission and Distribution Power System Credibility and Service Quality";

--- Deleted the content about North America in the notes of 692-01-11 and 692-02-10;

--- Removed synonyms used in Canada and the United States. 692-02-05 (controledemergency), 692-02-08 (insecure

state), 692-08-01 (systemaverageinterruptionfrequencyindex), 692-08-02 (customeraverage interruptionfrequencyindex), 692-08-03 (systemaverageinterruptiondurationindex), 692-08-05 (customeraverageinterruptiondurationindex).

This part is proposed by the National Electrotechnical Standardization Technical Committee.

This part is composed of the National Electrotechnical Terminology Standardization Technical Committee (SAC/TC232), the national voltage and current level and frequency standardization technology

The committee (SAC/TC1) and the National Technical Committee for Reliability and Maintainability Standardization of Electrical and Electronic Products (SAC/TC24) are under

the common jurisdiction.

This section was drafted. General Research Institute of Mechanical Science Group Co., Ltd., China Energy Construction Group Guangdong Electric Power Design and Research Institute Co., Ltd.

The company, Anhui Huayu Cable Group Co., Ltd., the Fifth Electronics Research Institute of the Ministry of Industry and Information Technology, and China Machinery Productivity Promotion Center.

1 Scope

This part of GB/T 2900 specifies the relevant terms in the credibility of the power system and the quality of service in the case of power generation, transmission and distribution.

This section applies to the planning, management and design of power systems.

2 Normative references

This document has no normative references.

3.1 System concept

692-01-01

Electric, electric

Contains electricity, produces electricity, is caused by or is driven by electricity.

692-01-02

Electric power system

A system for generating electrical energy connected to power generation, transmission and distribution devices.

Note. A specific power system includes all equipment and power plants for power generation, transmission and distribution within the specified range.

692-01-03

Electric power network

A combination of various devices, substations, lines or cables used for transmission and distribution.

Note. The scope of each part of the power grid can be determined by applicable standards such as geographic location, ownership and voltage level.

[GB/T 2900.50-2008, definition 601-01-02]

692-01-04

Trunk power system bulkelectricsystem; BES; bulkpowersystem; bulkelectricitysystem

Mainnet

Part of the power system is composed of power generation and transmission equipment.

Note 1. The backbone power system is limited to the large-capacity power generation equipment directly connected to the high-voltage power transmission system, in order to generate and transmit electrical energy to the main

Industrial and distribution center.

Note 2. In English, the term "compositesystem" also represents this concept.

[IEC 60050-601.1985, definition 601-01-33, English terms have been added, and Note 1 has also been revised]

692-01-05

System adequacy (of power system) systemadequacy(ofanelectricpowersystem)

The system does not exceed the rated indicators and system operating limits, and ensures that the voltage and system frequency of each node are within the normal range

The ability to provide the total electrical energy required under this situation also includes consideration of planned and unplanned system outages.

Note 1. System adequacy can be quantified by the measurement method in 692-11.

Note 2. The number of this article in IEC 60050-191.1990 is 191-21-01.