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

GB/T 2900.59-2008

Replacing GB/T 2900.59-2002

**Electrotechnical terminology -- Generation, transmission and
distribution of electricity -- Substations**

电工术语 发电、输电及配电 变电站

(English Translation)

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Foreword

This section GB/T 2900 Part 59.

The partial modification of the use of IEC 60050-605. 1983 "International Electrotechnical Vocabulary - Part 605. Generation, transmission and distribution substations" and with reference to the International Electrotechnical Commission 2003 document (1/1906/CD), modify the definition of some terms used.

This part of IEC 60050-605. Compared to 1983, there is a technical difference.

--- 602-02-11 [12], 605-03-01 [2] were changed to separate two;

--- Modified 605-01-01, 605-02-37 such definitions;

--- Remove IEC 60050-605. 605-02-37 1983 in the second English term "substation relay kiosk".

This Part replaces GB/T 2900.59-2002 "Electrotechnical terminology Generation, transmission and distribution substations." this section compared with the GB/T 2900.59-2002 main changes are as follows.

--- 605-01-19 and 605-01-20 of the Chinese term increase "bus" instructions;

--- 604-02-32 Chinese term "silencer shell" to "muffler shell";

--- 605-01-25 Chinese term increase "sesqui-breaker";

--- Modified, "605-02-37 substation relay chamber" is defined as "605-01-01 substation." this part of the National Electrotechnical Terminology Standardization Technical Committee (SAC/TC232) and focal points.

This in part by China Electric Power Research Institute, Mechanical Science Research Institute and the China Electricity Council is responsible for drafting scientific enterprise.

1 Scope

This standard specifies the generation, transmission and distribution in the field of terminology related substations.

This standard applies to the planning, management, design, power generation, transmission and distribution and other areas of power system.

2.1 Substation Type - Substations arrangement

Note: "substation" also known as "substation." 605-01-01 Part of the power system, which is concentrated in a designated place, including the terminal transmission or distribution line and switch and control equipment Buildings and transformers. Typically include power system security and control of the necessary facilities (such as protective devices).

Note: Depending on the nature of the system contains a substation can add a prefix to define the word in front of the substation. For example .(a transmission system) Transmission and Distribution Stations, power distribution substation, 500kV substation, 35kV substation.

605-01-02

With a switch device, also typically includes bus, but no power transformer substation.

605-01-03

Transformer two or more different voltage levels of the network connecting the substation.

605-01-04

Transformer output voltage higher than the input voltage of the transformer substation.

605-01-05

Transformer output voltage is lower than the input voltage of the transformer substation.

605-01-06

The main substation to the traction power supply system.

605-01-07

Mounted inverter and are mainly used to convert alternating current or direct current into AC substation.

605-01-08

Frequency alternating current can be converted from one substation to another frequency.

605-01-09

There substation operating personnel on duty.