

Australian Standard[®]

**INTERNATIONAL ELECTROTECHNICAL
VOCABULARY**

**Chapter 605—GENERATION,
TRANSMISSION
AND
DISTRIBUTION OF
ELECTRICITY—
SUBSTATIONS**

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Department of Technical and Further Education, N.S.W., Victoria and South Australia
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PREFACE

This Standard was prepared by the Association's Committee on Symbols, Units and Quantities for Electrotechnology, under the authority of both the Telecommunications and Electronics Standards Board and the Electrical Standards Board. This standard together with AS 1852 (Chapters 601 to 604) supersedes AS 1852(25)—1970, *International Electrotechnical Vocabulary, Generation, transmission and distribution of electrical energy*, which was withdrawn in July 1985.

This Standard is identical with and has been reproduced from IEC 50(605)—1983. Acknowledgement is accordingly made to the International Electrotechnical Commission for this assistance.

This Standard is the fourth chapter of a series of five chapters covering generation, transmission and distribution of electricity. The division of chapters is as follows:

- Chapter 601—General
- Chapter 602—Generation
- Chapter 603—Power system planning and management
- Chapter 604—Operation
- Chapter 605—Substations

This Standard is one of the AS 1852 series of Standards. In the past, this series has consisted of direct endorsements of the IEC 50 series of the International Electrotechnical Vocabulary. In future, newly issued parts of IEC 50, where appropriate, will be issued as Australian Standards, i.e. not endorsements. The full text of the definitions in English, French and Russian has been included as some definitions are considered to be incomplete when produced in one language.

The purpose of the AS 1852 series is to provide a glossary of terms used in electrical engineering. The series lists terms in English, French and Russian, and in some cases Spanish. It is intended that other Australian Standards will refer to AS 1852 and not repeat any definitions.

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Australian Standard

INTERNATIONAL ELECTROTECHNICAL VOCABULARY

CHAPTER 605—GENERATION, TRANSMISSION AND DISTRIBUTION OF ELECTRICITY—SUBSTATIONS

SECTION 605-01—TYPES OF SUBSTATIONS—SUBSTATION LAYOUTS

605-01-01

poste (d'un réseau électrique)

Partie d'un réseau électrique, située en un même lieu, comprenant principalement les extrémités des lignes de transport ou de distribution, de l'appareillage électrique, des bâtiments et, éventuellement, des transformateurs. Un poste comprend généralement les dispositifs destinés à la sécurité et à la conduite du réseau (par exemple les protections).

Note. — Selon le type de réseau auquel appartient le poste, il peut être qualifié par la désignation du réseau.

Exemples: postes de transport (d'un réseau de transport), poste de distribution, poste à 400 kV, poste à 20 kV.

substation (of a power system)

The part of a power system, concentrated in a given place, including mainly the terminations of transmission or distribution lines switchgear and housing and which may also include transformers. It generally includes facilities necessary for system security and control (e.g. the protective devices).

Note. — According to the nature of the system within which the substation is included, a prefix may qualify it.

Exemples: transmission substation (of a transmission system), distribution substation, 400 kV substation, 20 kV substation.

электрическая подстанция

Часть системы энергоснабжения, к месту нахождения которой подходят питающие и распределительные линии, включающая электрические аппараты и помещения для их размещения и могущая включать трансформаторы. Содержит обычно также средства обеспечения надёжности и регулирования работы (например, защитные устройства).

Примечание. — В соответствии с характером системы, в которую входит подстанция, её могут характеризовать поясняющие слова.

Примеры: подстанция электропередачи, распределительная подстанция, подстанция 400 кВ, подстанция 20 кВ.

605-01-02

poste de sectionnement
poste de coupure

Poste comprenant des organes de manœuvre et généralement des jeux de barres, à l'exclusion de transformateurs de puissance.

switching substation

A substation which includes switchgear and usually busbars, but no power transformers.

электрическое распределительное устройство

Электроустановка, имеющая коммутационную аппаратуру и обычно сборные шины, но не имеющая силовых трансформаторов.

605-01-03

poste de transformation

Poste comprenant des transformateurs de puissance permettant l'interconnexion de plusieurs réseaux, à des tensions différentes.

transformer substation

A substation containing power transformers interconnecting two or more networks of different voltages.

трансформаторная подстанция

Подстанция, имеющая трансформаторы, связывающие две или более части электрической сети разных напряжений.