

HG

CHEMICAL INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HG/T 20509-2014

Replacing HG/T 20509-2000

Design code for instrument power supply system

仪表供电设计规范

(English Translation)

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1.0.1

This code was formulated with a view to unify the specifications of instrument power supply design for chemical industry, to promote normalization of instrument power supply engineering design, and to achieve the purpose of advanced technology, economic feasibility, safety and usability.

1.0.2

This code is applicable to the power supply design of measuring and control instrument of chemical plant.

1.0.3

Besides the provisions stipulated in this code, instrument power supply design code shall be in accordance with the requirements of current national standards.

2.1.1 Instrument power supply

DC or AC power supply for measuring and control instruments.

2.1.2 Uninterrupted power supply

Power supply can be continuous a certain serving time after interruption of external power supply, which can be divided into AC uninterrupted power supply and DC uninterrupted power supply.

2.1.3 General power supply

No delay power supply without battery-backed system.

2.1.4 Momentary power failure

The time for momentary interruption of power supply.

2.1.5 Power capacity

Rated value for power output of power supply. Generally, AC power capacity expressed in voltamperes or kilovoltamperes, DC power capacity expressed in amperes of output current.

2.2 Abbreviations

CCS - Compressor Control System

DCS - Distributed Control System

FCS - Fieldbus Control System

PLC - Programmable Logic Controller

SIS - Safety Instrumented System

UPS - Uninterrupted Power Supply