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**ENERGY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

NB/T 11317-2023

Technical specification for supply voltage monitoring system

供电电压监测系统技术规范

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

1 Scope

This document specifies the general requirements for the power supply voltage monitoring system, master station functional requirements, master station performance and safety requirements, and system testing requirements.

This document applies to 50Hz AC public grid power supply voltage monitoring system.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 3873 General technical requirements for packaging of communication equipment products
GB/T 22239 Information security technology Network security level protection basic requirements
DL/T 500 Technical conditions for use of voltage monitors
DL/T 890 (all parts) Energy Management System Application Programming Interface (EMS-API)
DL/T 1080 (all parts) Interface for integrated distribution management system for power enterprises

3 Terms and definitions

The following terms and definitions apply to this document.

Supply terminals

The connection point between the power supply department's distribution system and the user's electrical system.

[Source: GB/T 12325-2008, 3.2] 3.2 Supply voltage the line or phase voltage at the supply point.

[Source: GB/T 12325-2008, 3.3] 3.3 A system for collecting, counting, storing and applying power supply voltage data.

Voltage deviation the relative value of the deviation of the actual operating voltage from the

system nominal voltage, expressed as a percentage.

[Source. GB/T 12325-2008, 3.4] 3.5 Voltage monitorvoltage monitor an electronic instrument or meter that continuously monitors and counts voltage deviations with a voltage change rate of less than 1% per second.

[Source. DL/T 2350-2021, 3.2]