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

NB/T 10517-2021

**Standard for acceptance data of surface coal mine installation
engineering**

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Foreword

This document was issued on 7 January 2021 by the National Energy Administration of the PRC and takes effect on 1 April 2021.

It is a NB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 13.100, Chinese classification D 09.

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Attention is drawn to the possibility that some of the contents of this document may involve patent rights. The issuing body of this document assumes no responsibility for identifying such patent rights.

This standard was proposed by and is under the jurisdiction of the China National Coal Association.

The main drafting organizations of this standard are: China Coal Pingshuo Group Co., Ltd.; Coal Science and Technology Research Institute Co., Ltd.; China National Coal Group Corp.; CCTEG Energy Science and Technology Development Co., Ltd.; China University of Mining and Technology; Shenhua Zhunneng Group Co., Ltd.; and Hulunbuir Dongming Mining Co., Ltd.

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Structure of the document: a foreword, eight clauses and nineteen record forms; the front matter is numbered in roman figures and the body in arabic figures, the body running to page 58 and beyond according to the official table of contents.

No superseded standard is declared on the cover; the companion document for the quality requirements themselves is NB/T 10515-2021.

1 Scope

NB/T 10517-2021 fixes the acceptance documentation required for the installation works carried out while building an open pit coal mine in China. A surface mine is commissioned as a chain of fixed plant - the primary and semi-mobile crushing stations, the belt conveyor system that carries coal and waste out of the pit, the dewatering and drainage installations, and the electrical distribution that feeds all of it - and each of those has to be handed over with a record that proves it was installed correctly. The standard defines the terms, the basic requirements on who prepares and who checks each record, and the way the documentation is organised into files and volumes. It then specifies, installation by installation, the acceptance data that must be produced: the equipment arrival and inspection records, the foundation and setting-out records, the alignment and levelling measurements with their permitted deviations, the bolting and welding records, the electrical testing and insulation measurements, the no-load and load trial running records, and the sign-offs at each stage. Tables give the measured items, their tolerances and the method of measurement for each class of equipment. The compilation, checking, signature and filing of the complete acceptance package, and its handover to the operating organisation, close the standard. Note that the printed English title omits mine construction, which the Chinese title carries.

This standard specifies the general provisions for the acceptance of surface coal mine installation engineering, the acceptance record forms for the installation of stationary and semi-mobile crusher equipment, the acceptance record forms for the installation of belt conveyor equipment, the acceptance record forms for the installation of dewatering system equipment, the acceptance record forms for the installation of water proofing and drainage system equipment, and the requirements for the acceptance record forms for the installation of power distribution system equipment.

This standard is applicable to the compilation of the acceptance data of installation engineering within the excavation area and the dump area of a surface coal mine.

2 Normative references

The following documents are indispensable for the application of this document. For dated

references, only the edition cited applies to this document. For undated references, the latest edition of the referenced document (including all amendments) applies to this document.

GB/T 7251.1, Low-voltage switchgear and controlgear assemblies - Part 1: General rules.

GB 50119, Technical code for application of concrete admixtures.

GB 50149, Code for construction and acceptance of bus bar installation in electric equipment installation engineering.

GB 50150, Standard for hand-over test of electric equipment in electric equipment installation engineering.

GB 50171-2012, Code for construction and acceptance of panels, cabinets and secondary circuit wiring in electric equipment installation engineering.

GB 50184, Code for acceptance of construction quality of industrial metallic piping engineering.

GB 50231, General code for construction and acceptance of mechanical equipment installation engineering.

GB 50268-2008, Code for construction and acceptance of water and sewerage pipeline works.

GB 50270-2010, Code for construction and acceptance of conveying equipment installation engineering.

GB 50683, Code for acceptance of construction quality of field equipment and industrial pipe welding engineering.

GB 51062-2014, Code for construction of coal mine equipment installation engineering.

JGJ 55, Specification for mix proportion design of ordinary concrete.

NB/T 10515-2021, Standard for quality acceptance of surface coal mine installation engineering.

3 General provisions

3.1 Composition of the acceptance data. The acceptance data of surface coal mine equipment installation engineering are composed mainly of four parts: the inspection lot acceptance records of sub-item works, the quality acceptance records of sub-item works, the quality acceptance records of sub-division works, and the quality acceptance records of unit works.

3.2 Inspection lot acceptance record of a sub-item work. The inspection lot quality acceptance record of a sub-item work shall be filled in by the construction unit and