

ICS 73.020
CCS P 00/09

NB

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

NB/T 51066-2017

Code for testing of construction engineering in coal industry

煤炭工业建设工程检测规范

Issued on: March 28, 2017

Implemented on: August 1, 2017

Issued by: National Energy Administration of the PRC

Table of Contents

1 General Provisions	1
2 Terms	2
3 Basic Requirements	3
4 Testing Organizations	5
4.1 Establishment and Management	5
4.2 Grade Division of the Testing Capability	6
4.3 Testers	14
4.4 Testing Equipments	14
4.5 Testing Sites	14
5 Testing Programmes	16
5.1 Testing of Engineering Materials and Components	16
5.2 Testing of Engineering Entity	16
5.3 Testing of Use Function	17
6 Implementation of Testing	18
6.1 Testing Plan	18
6.2 Evidential Sampling and Testing	18
6.3 Sample Management	19
6.4 Test Operation	20
6.5 Test Data Acquisition and Processing	20
6.6 Test Report	21
7 File Management	23
Appendix A Application Materials for Checking and Ratifying the Test Capability of Testing Organization for Coal Construction Engineering	24
Appendix B Table for Allocation of Main Testing Equipments of Testing Organization.....	34
Appendix C Table for Testing of Materials and Components in Mine Construction.....	43
Appendix D Table for Testing of Materials and Components in Civil Engineering.....	44
Appendix E Table for Testing of Materials and Components in Installation Project.....	49
Appendix F Table for Testing of Engineering Entity.....	50
Appendix G Table for Testing of Use Function.....	52
Appendix H Table for Witness Record.....	55
Explanation of Wording in This Code	56
List of Quoted Standards	57

Foreword

This document was issued on 28 March 2017 by the National Energy Administration of the PRC and takes effect on 1 August 2017.

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 73.020, Chinese classification P 00/09.

This code was prepared in accordance with the Notice of the National Energy Administration on Issuing the First Batch of Plans for the Formulation (Revision) of Energy Sector Trade Standards for the Year 2012 (Guo Neng Ke Ji [2012] No. 83). The work was organized by the China Coal Construction Association and carried out jointly by Shandong Runlu Building Material Testing Technical Service Co., Ltd. and Zhongding International Engineering Co., Ltd. together with the relevant participating units.

In the course of preparation the drafting group complied with the relevant rules governing the compilation of standards and codes, conducted extensive investigation and research, carefully summarized the practical experience gained in the testing technology and in the management of the quality of coal construction engineering, solicited opinions and suggestions widely throughout the national coal industry, and finalized the text after repeated discussion, revision and improvement at a number of meetings and after a final examination.

This code is made up of 7 chapters and 8 appendices. Its main content covers general provisions, terms, basic requirements, testing organizations, testing programmes, implementation of testing and file management.

The National Energy Administration is in charge of the administration of this code. The China Coal Construction Association is responsible for the routine management and for the adjustment and revision of the content falling within its remit, while the chief drafting units are responsible for the interpretation of the specific technical content.

During implementation, users are requested to sum up their experience, to accumulate data, and to send their opinions and suggestions to the China Coal Construction Association and to Shandong Runlu Building Material Testing Technical Service Co., Ltd. (address: North Building, Hongshan Town, Zichuan District, Zibo City, Shandong Province; postcode 255120), so that they may be taken into account in a future revision.

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Participating units include: the Shaanxi West Construction Engineering Quality Supervision Centre Station of the Coal Industry; the Shenhua Construction Engineering Quality Supervision Centre Station of the Coal Industry; the Shandong Construction Engineering Quality Supervision Centre Station of the Coal Industry; China Coal Shaanxi West Zhongan Project Management Co., Ltd.; the Jincheng Mining Area Construction Engineering Quality Supervision Station of the Coal Industry; and Shanxi Anxin Construction Engineering Testing Co., Ltd.

Further participating units include: Shandong Runyu Testing Technology Co., Ltd.; the Hancheng Hengrui Engineering Quality Testing Centre; China Coal Xuzhou Datun Technical Service Co., Ltd.; Ordos Shendong Testing Co., Ltd.; Shenhua Ningxia Coal Industry Group Construction Engineering Testing Co., Ltd.; Shandong Fangda Engineering Co., Ltd.; and Henan Energy and Chemical Industry Construction Group Co., Ltd.

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The code was approved by Announcement No. 6 of 2017 of the National Energy Administration, dated 28 March 2017, which released 159 sector standards, among them 34 energy standards (NB), 39 electric power standards (DL) and 86 petroleum standards (SY). In that announcement the present code appears as item 29, with the approval date 2017-03-28 and the implementation date 2017-08-01, and with no standard listed as replaced.

The code was registered under record number J2351-2017. Standards in the coal field released by the announcement are published by the China Coal Industry Publishing House; the edition of this code was published in Beijing in 2017. The competent department for compilation is the China Coal Construction Association and the approving department is the National Energy Administration, with an effective date of 1 August 2017.

1 Scope

NB/T 51066-2017 governs the testing of construction works in the Chinese coal industry, and the organisations that carry it out. Testing here means the measurements taken to prove that what was built meets the specification - concrete and mortar strength, reinforcement position and cover, steel structure welds and bolted connections, pile integrity and bearing capacity, anchor and bolt pull-out, ground improvement,

waterproofing, curtain wall and thermal performance, and the materials used in the works. The code sets the general provisions and defined terms, the basic requirements on when testing is mandatory and on the sampling that makes a result representative, and the qualification of the testing organisations themselves. It grades those organisations - special grade, A, B and C - and states for each the testing items they may undertake, the equipment they must hold, the qualifications of their staff and the quality system they must operate. It then specifies, item by item, the test method to be used, the number and location of samples or measurement points, the equipment and its calibration, the conditions of test, the calculation of the result and the criteria for judging it. The treatment of non-conforming results and of retesting, the test report and its content, and the retention of records and samples complete the code. Owners, contractors, supervisors and laboratories on Chinese coal construction projects work to it.

Chapter 1 states the purpose of the code, the scope within which it applies, the type of body that may carry out the testing work it governs, and its relationship with the other national and sector standards in force.

1.0.1 This code is formulated in order to regulate the conduct of testing of coal construction engineering, to unify the testing standards applied to coal construction engineering, and to guarantee the quality of the testing of coal construction engineering.

1.0.2 This code applies to the testing work of all types of coal construction engineering and of construction projects carried out by coal enterprises under every form of investment or financing model.

1.0.3 The testing work of coal construction engineering, and of construction projects carried out by coal enterprises under every form of investment or financing model, shall be undertaken by a testing organization that possesses the testing capability for coal construction engineering.

1.0.4 In addition to complying with this code, the testing work of coal construction engineering shall also comply with the provisions of the relevant current national and sector standards.

2 Terms

Chapter 2 defines the seven terms used throughout the code. Each entry gives the Chinese term, its English equivalent as printed in the code, and the full definition.

2.0.1 Coal construction engineering.

Definition: the general designation of the coal production projects built in order to extract coal resources and to process coal products, together with their supporting, auxiliary and ancillary projects and the installation projects of the facilities and equipment. It comprises mine construction engineering, civil engineering and installation engineering.