ICS 73.020
CCS P 00/09

NB

ENERGY INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

NB/T 51029-2015

Replacing MT 5009-94

Standard for quality evaluation of shaft and drift engineering in coal mine

煤矿井巷工程质量评价标准

Issued on: April 2, 2015 **Implemented on: September 1, 2015**

Issued by: National Energy Administration of the PRC

Table of Contents

Foreword

This document was issued on 2 April 2015 by the National Energy Administration of the PRC and takes effect on 1 September 2015.

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.

It replaces MT 5009-94, which is superseded.

This standard was prepared by the China National Coal Construction Association, which organized the relevant units to draft it jointly, in accordance with the Notice of the National Energy Administration on Issuing the First Batch of Energy Sector Industry Standard Formulation and Revision Plans for 2012 (Guo Neng Ke Ji [2012] No. 83) and the relevant

requirements for standard drafting.

During the drafting process the drafting group carried out extensive investigation and research, conscientiously summarized practical experience, solicited in various forms the opinions of the relevant units and experts of the national coal construction industry, and held a number of meetings for discussion, study and revision before finalizing this standard.

This standard takes six categories of works as its main evaluation objects: vertical shafts, inclined shafts and adits, drifts (roadways), chambers, underground safety structures and underground track laying. Each unit project is divided into a number of evaluation elements, and the quality of each evaluation element is evaluated against five evaluation items: quality assurance conditions of the construction site, physical performance test, quality records, measured dimensional deviation and limit value, and impressional quality. On this basis a comprehensive quality evaluation of the unit project is carried out.

This standard consists of 12 chapters and 2 appendices. Its main contents are: general provisions; terms; basic requirements; evaluation methods; evaluation of quality assurance conditions at the construction site; quality evaluation of vertical shaft works; quality evaluation of inclined shaft and adit works; quality evaluation of drift works; quality evaluation of chamber works; quality evaluation of underground safety structure works; quality evaluation of underground track laying works; comprehensive quality evaluation of the unit project; Appendix A, test and evaluation table of physical performance of shaft and drift engineering in coal mines; and Appendix B, measurement and evaluation table of dimensional deviation and limit value of shaft and drift engineering in coal mines.

This standard is under the administration of the National Energy Administration. The China National Coal Construction Association is responsible for its day-to-day management and for the adjustment and modification of individual provisions, and the chief editorial units are responsible for the interpretation of its specific technical content.

Users are requested to summarize experience and accumulate data during implementation and to send their comments and suggestions at any time to the China National Coal Construction Association (address: No. 21 Hepingli North Street, Beijing, postcode 100713, e-mail gcjs@cncca.org.cn) and to the Coal Industry Hebei Jiantou Construction Engineering Quality Supervision Station (address: Room 2204, Block A, Hebei Jiantou Group, Yuyuan Plaza, No. 9 Yuhua West Road, Shijiazhuang, Hebei Province, postcode 050000, e-mail hbjtzjz@126.com), for reference in future revisions.

Chief editorial units: Coal Industry Hebei Jiantou Construction Engineering Quality Supervision Station; Shandong Energy Group Co., Ltd.; Coal Industry Shaanxi Construction Engineering Quality Supervision Central Station.

Participating units: Coal Industry Shanxi Construction Engineering Quality Supervision Central Station; Coal Industry China Coal Energy Group Construction Engineering Quality Supervision Central Station; Coal Industry Xinjiang Construction Engineering Quality

Supervision Central Station; Guodian Jiantou Inner Mongolia Energy Co., Ltd.; Shaanxi Binchang Mining Group Co., Ltd.; Chongqing Juneng Construction (Group) Co., Ltd.; Coal Industry Xinjiang Production and Construction Corps Construction Engineering Quality Supervision Station; Coal Industry Lingwu Mining Area Construction Engineering Quality Supervision Station; China Coal Shaanxi Zhong'an Project Management Co., Ltd.

Main drafters: Liu Peinian, Wang Jianfeng, Zhao Xiong, Zhang Zhishan, Zhangsun Xueting, Bu Changsen, Gu Yuchun, Liu Bo, Kan Wentao, Dong Shuquan, Liu Tingjian, Zhao Fengjin, Jiang Like, Xing Fengshou, Wang Junhong, Li Huadong, Han Yong, Li Huiyun, Zhu Wenliang, Zhang Qiang, Yin Jianping, Geng Zhijian, Aierken, Zuo Yonghong, Hu Baoling, Li Lianghong, Yang Jun, Zhao Haisheng, Cao Wenjin, Han Guozhao, Sun Shihai, Bai Jin, Liu Hongliang, Zhao Wei, Wang Yueming.

Main reviewers: An Heren, Sun Shouren, Li Lihua, Deng Weiguo, Wang Yazhou, Han Shuqiang, Zhu Jiande, Liu Zunjie, Wang Xiaobo, Zhao Huaidong, Liang Zhen, Lu Jun, Zhang Mengbiao, Li Yongqiang, Pu Yaonian, Ma Guichun, Wang Pengyue, Zhang Jiaxun, Liu Zhiqiang, Yao Ping, Zhang Baixiang, Yang Xinyi, Zhou Qingguo, Cai Liming, Wang Xinbiao.

Announcement of the National Energy Administration (2015 No. 3)

In accordance with the relevant provisions of the Notice of the National Energy Administration on Issuing the Administrative Measures for Standardization of Energy Sector Industry Standards (Trial) and Its Implementing Rules (Guo Neng Ke Ji [2009] No. 52), and after review, the National Energy Administration approved 203 industry standards, beginning with Carbon Steel and Low Alloy Steel for Pressurized Water Reactor Nuclear Power Plants - Part 31: 15Mn Forgings for Containment Vessels. Of these, 106 are energy standards (NB) and 97 are electric power standards (DL); they are hereby published. The announcement is dated 2 April 2015.

In the annexed catalogue of industry standards, item No. 97 is NB/T 51029-2015, Standard for Quality Evaluation of Shaft and Drift Engineering in Coal Mine. It replaces MT 5009-94, was approved on 2015-04-02 and is implemented from 2015-09-01.

Chief editorial department: China National Coal Construction Association. Approving department: National Energy Administration. Implementation date: 1 September 2015. The standard is published by China Coal Industry Publishing House, Beijing, first edition and first printing August 2015.

Structure of the remaining chapters

Chapter 6 continues with Table 6.3.2 and with 6.4, Impressional Quality Evaluation of Vertical Shaft Project.

Chapter 7, Quality Evaluation of Inclined Shaft and Adit Entry Project, covers the physical