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

DL/T 5113.13-2019

**Hydropower and water conservancy basic construction
engineering unit engineering quality grading standard Part 13:
masonry dam project**

水电水利基本建设工程 单元工程质量等级评定标准 第13部分：浆砌石坝工程 清
晰版

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Appendix A Unit Engineering Quality Grade Evaluation Table

Explanation of terms used in this standard

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1 General

1.0.1 This standard is specially formulated in order to standardize the engineering quality grade evaluation of mortar-masonry dam units and improve the engineering quality.

1.0.2 This standard is applicable to hydropower and water conservancy mortar masonry dam projects on rock foundations.

1.0.3 The quality level assessment of unit engineering shall be based on the raw materials and intermediate products that meet the requirements of relevant standards, the process acceptance is qualified, and the inspection materials are complete.

Foreword

This standard is based on the "Notice of the National Energy Administration on Issuing the First Batch of Industry Standard System (Revision) Plans in the Energy Sector in 2013" (National Energy Administration).

Neng Technology [2013] No. 235) requirements.

In the process of compiling this standard, the compiling team conducted extensive investigations and summarized the practical experience of my country's mortar-masonry dam construction technology in recent years.

On this basis, the opinions of relevant units have been extensively solicited in various ways, and the main issues have been discussed and researched repeatedly.

Finalized.

The "Quality Grade Evaluation Standards for Hydropower and Water Conservancy Infrastructure Project Units" is a series of standards, including the following 14 parts.

--Part 1: Civil Engineering

--Part 2: Metal structure and hoist mechanical equipment installation project

--Part 3: Hydrogenerator Unit Installation Project

--Part 4: Installation of hydraulic machinery auxiliary equipment

--Part 5: Installation of power generation electrical equipment

--Part 6: Installation of step-up transformer electrical equipment

--Part 7: Roller compacted earth-rock dam project

--Part 8: Hydraulic roller compacted concrete project

--Part 9: Geosynthetics Application Engineering

--Part 10: Asphalt Concrete Project

--Part 11: Bulb Tubular Turbine Generator Set Installation Project

--Part 12: Heating, ventilation and air conditioning equipment installation works

--Part 13: Masonry Dam Project

--Part 14: Concrete Face Rockfill Dam Project According to the requirements of the "Provisions for the Compilation of Engineering Construction Standards" (Jianbiao [2008] No. 182), this standard is divided into 5 chapters and 1 appendix.

The content includes. dam foundation and bank slope engineering, masonry engineering of mortar masonry dam, impervious body engineering of mortar masonry dam, and pier wall engineering of mortar masonry dam.

This standard was proposed by the China Electricity Council.

This standard is under the jurisdiction of the Hydropower Construction Standardization Technical Committee of the Electric Power Industry.

The editor-in-chief of this standard. China Water Resources and Hydropower Seventh Engineering Bureau Co., Ltd.

1 General

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This standard is specially formulated in order to standardize the engineering quality grade evaluation of mortar-masonry dam units and improve the engineering quality.

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This standard is applicable to hydropower and water conservancy mortar masonry dam projects on rock foundations.

1.0.3

The quality level assessment of unit engineering shall be based on the raw materials and intermediate products that meet the requirements of relevant standards, the process acceptance is qualified, and the inspection materials are complete.

Under the circumstances.

1.0.4

The quality inspection items of unit engineering and each process are divided into main control items and general items. The unit engineering quality level is divided into excellent and qualified Two levels.

1.0.5

The grouting of the rock foundation of the mortar stone dam shall be carried out in accordance with the provisions of DL/T 5113.1.

1.0.6

In addition to conforming to this standard, the engineering quality grade assessment of the mortar masonry dam unit should also conform to the current relevant national standards.

2.1 General rules

2.1.1

Division of unit projects. Divided according to the areas and sections for design or construction inspection and acceptance, each area and section is a unit project.

2.1.2

The engineering quality grade evaluation standards of dam foundation and bank slope unit include. dam foundation and bank slope excavation, dam foundation and bank slope treatment, and mortar and stone dam body and foundation the rock joint surface is processed in three processes.

2.2 Excavation of dam foundation and bank slope

2.2.1

The quality inspection items, quality standards and inspection methods of dam foundation and bank slope excavation shall meet the requirements of Table 2.2.1.

2.2.2

Number of inspections. The total number of inspection points is controlled by the inspection section, and the interval between sections is no more than 10m. The measurement points of each cross section are along the oblique length of the slope.

The spacing is not more than 5m, the number of points is not less than 6, and the local protruding or recessed parts with an area of 0.5m² or more should be added with detection points.

2.2.3

The quality assessment shall meet the following requirements.

1 Qualified. The main control project meets the quality standard; for each general project, no less than 70% of the check points should meet the quality standard and be unqualified Points should not be concentrated.

2 Excellent. the main control item meets the quality standard; each item of general items should have no less than 90% of the check points that meet the quality standard and are not qualified Points should not be concentrated.

See Appendix A for the quality evaluation form of dam foundation and bank slope excavation process.