

DL

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

中华人民共和国电力行业标准

DL/T 5160-2002

**Technical code of rock and soil description for
geotechnical investigation of electric power
plant**

火力发电厂岩土工程勘测描述技术规定

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Foreword

The Standard is formulated by amending on the basis of the original SDGJ 67-1984 *Thermal Power Plant Engineering Geological Rock Description Rules* according to the requirements of *Notice About Issuing the Plan for Formulating and Revising Electric Power Industry Standards for 2001* (DL [2001] No. 44) of SETC Electric Power Department.

The Standard is formulated to unify the standard, define the requirement, and ensure the quality in geotechnical engineering survey of thermal power plant, so as to realize the requirements of thermal power plant engineering construction safety and economy.

The Standard contains 9 chapters and 3 annexes and the main content amended and supplemented for the original provision includes:

- 1 It put forward new requirements for the goals and tasks of geotechnical description and specifies the basic principles of geotechnical description, which is not limited to the rock and soil (including special soil) classification and description, also involves description for building material, rock, and soil and water samples.
- 2 Made relevant supplement for the “Basic Requirements” of the original provision.
- 3 Amended the sub-clay in the clayey soil of the original provision into silty clay; amended the light sub-clay into silty clay.
- 4 Added the relevant content of “Building Materials”.
- 5 Added the relevant content of “Rock, Soil and Water Samples”.
- 6 Amended the “Color Change Schematic Diagram between Different Main Colors” of the original provision into “Standard Color Chart”.

The Standard shall substitute SDOJ 67-1984 since the day of issuing.

Annex A of the Standard is Normative Annex.

Annex B and Annex C of the Standard are Informative Annexes.

The Standard is proposed and is under the jurisdiction of Electric Power Planning and Design Standardization Technical Commission of Electric Power Industry.

The Standard is drafted by the Northwest Electric Power Design Institute of State Electric Power Company, and China Power Engineering Consulting Company participates in the

drafting.

Main drafters of the Standard are: Ke Xue, Dai Lianyun, Wang Zhenhua, Liu Houjian, and Deng Nanwen.

The Electric Power Planning and Engineering Institute of State Electric Power Company are commissioned to be responsible for interpretation of the Standard.

1 Scope

The Standard specifies the basic content in geotechnical engineering survey description of thermal power plant. It is applicable to geotechnical engineering survey description for thermal power plants newly built or expanded with all kinds of capacity of turbo-generator set. The geotechnical engineering survey description of electricity transmission and distribution may refer to the provision.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GBJ 145-1990 Classification of soil

GB 50021-2001 Code for investigation of geotechnical engineering

SL 239 Specification of soil test

3 General provisions

3.0.1 Geotechnical engineering description of thermal power plant is the basis of geotechnical engineering survey design, and it shall take a realistic and practical, serious and responsible attitude to do the geotechnical description.

3.0.2 The task of geotechnical description is: dividing the geotechnical categories, identifying the characteristics of geotechnical engineering, obtaining reliable source material for the design and construction of the geotechnical engineering.

3.0.3 The provision includes the identification and description of the following all kinds of rock and soil: Rocks, gravelly soil, sandy soil, silty soil, clayey soil, special soil and building materials. Meanwhile, it includes the description of rock sample and soil and water samples.

4 Basic requirements

4.1 General provisions

4.1.1 Describer shall carefully observe, and complete the description and record timely, comprehensively and accurately, to reflect the objective situation truthfully.

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