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

GB/T 32575-2026

Replacing GB/T 32575-2016

Power plant engineering data handover

发电工程数据移交

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Foreword

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01 State Administration for Market Regulation The State Administration for Standardization issued a statement.

1.Scope This document specifies the general rules, strategy formulation, demand determination, scheme formulation, scheme implementation, and handover content for power generation engineering data transfer. This document applies to the data handover of the following power generation projects.

---Coal-fired power generation, oil-fired power generation, gas-fired power generation, waste-to-energy power generation, biomass power generation, and other thermal power projects;

---Conventional hydropower, pumped storage power generation, and other hydropower projects;

---Pressed water reactors, heavy water reactors, high-temperature gas-cooled reactors, fast neutron reactors, and other nuclear power projects;

---Renewable energy power generation projects such as wind power, photovoltaic power, and solar thermal power. This document does not apply to the transfer and management of project archives, information management after the completion of the project, or the security and confidentiality of related information. Data transfer for other types of power generation projects, such as geothermal power generation, ocean energy power generation, and energy storage, shall be carried out in accordance with this document.

Note. This document does not specify the specific information technology implementation methods for data transfer, which is different from "digital transfer" and "digital delivery".

4 Engineering Data Transfer Rules

4.1 The transfer of power generation project data shall be carried out by the transferring party (such as the design unit, equipment manufacturer, construction unit, commissioning unit, etc.) in accordance with the requirements of laws and regulations. The contract stipulates that all expenses incurred in the planning and design of the power generation project, equipment manufacturing, construction, installation, commissioning, and other activities, as well as those required for operation and maintenance, will be covered. This refers to the process of transferring engineering data, such as technical and managerial data, to the recipient (e.g., the owner/operator). Other activities in the power plant lifecycle (see Appendix A). For details on the transfer of engineering data, please refer to the relevant data lists and tables in this document.

4.2 The handover of power generation project data shall include the following four stages.

- a) Develop a handover strategy. The handover strategy is part of the overall information strategy for the project, and the developed handover strategy should be in line with the needs of the recipient. Information work objectives, policies, and strategies.
- b) Determine handover requirements. Based on the identified requirements, determine the data that needs to be handed over.
- c) Develop a handover plan. The handover plan is part of the overall project information plan, and the developed handover plan needs to include confirmations. The handover requirements and implementation methods.

d) Implement the handover plan. Allocate appropriate resources and execute the handover plan.

4.3 The transfer of power generation project data shall comply with the requirements of relevant information security and data security standards. This includes the transfer of classified data and cross-border transfers for international projects. Data and other information shall be handled in accordance with relevant national regulations.

4.4 The ownership of the transferred engineering data shall comply with relevant national laws, regulations, standards and provisions.

4.5 This document specifies the basic requirements for data transfer in power generation projects. Each enterprise or specific project should formulate specific requirements based on its actual situation and needs. Current methods and operational details.

5. Development of Engineering Data Transfer Strategy The handover strategy should include the following.

a) Overall objectives and overall implementation organization of data transfer.

b) Regulations, requirements and standards, including contract and procurement requirements, legal and regulatory requirements, etc.

c) Objectives, principles, scope, and responsibilities of each party involved in the data transfer.

d) Organization for data handover. The owner/operator shall be responsible for the data handover, and each participating party shall be responsible for its respective handover. Work.

6 Determining the requirements for project data handover

6.1 In the early stages of an engineering project, handover requirements should be determined based on the data required for operation and maintenance activities.

Note. "Project pre-construction" refers to the time period before detailed engineering design during the power plant's life cycle activities.

6.2 When determining requirements, all activities during the power plant's operation and maintenance phases should be identified, including routine operations, handling of abnormal situations, maintenance, and... This document outlines the engineering data required for expansion and renovation projects, and summarizes the data transfer requirements. It also includes data related to power plant operation and maintenance. The types of activities are shown in Table 1.

7 Development of Engineering Data Transfer Plan

7.1 Handover Plan Contents The handover plan should include the organization of the data to be handed over, the granularity of information, the data level, the data format, the handover method, the handover responsibility, and the handover time. Quality management.

7.2 Data Transfer Organization The transferred data is organized according to the system, equipment and product classifications in Appendices A and B of GB/T 50549-2020, including systems. Related data lists and data tables related to equipment and products, etc. An example of the data transfer content classification method is shown in Figure 1, where functional objects are categorized as follows: Classified according to Appendix A and Appendix B of GB/T 50549-2020, information objects are classified according to GB /Z 18975.4, and descriptive relationships are classified according to... GB/T 18975.2 defines and explains related concepts in Appendix B. The rules for data classification and coding in the data list are detailed in Appendix C.

Note. The list includes equipment and material statistics or summary tables; the inventory includes a list of facility items; the data table is a parameter table for each type or each piece of equipment and product. Figure

7.3 Information Granularity

7.3.1 The granularity of the transferred data should be determined according to the requirements of operation and maintenance.

7.3.2 The granularity of information in the system classification data list and the equipment and product classification data table should conform to the requirements of Appendices D to J. The project can be customized or expanded upon. When customizing or expanding, the granularity requirements for application information at each stage and the digital design process should be analyzed and evaluated. The need to exchange the generated data.

7.4 Data Level This document defines four data levels.

- 1.Data required by laws, regulations, mandatory standards, or provisions.
- 2.Necessary data. Data that affects the integrity and safety of the power plant.
- 3.Optional Data. Data that can be transferred based on the differentiated needs of the project. This type of data may be available at the start of operation. Data that was previously (or at the start of operation) frozen may cause discrepancies between the data and the actual data when used during operation and maintenance. The risks are inconsistent and amplified over time by subsequent activities throughout the power plant's life cycle.
- 4.Temporary data. This refers to data that is used for specific tasks and has no long-term value, possessing temporary characteristics.