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

DL/T 2025.1-2019

**Guide of the maintenance for power plant valve - Part 1: general
provisions**

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Maintenance interval and scope
5 Valve maintenance process
6 Maintenance preparation
6.1 General requirements
6.2 Requirements of the construction unit
6.3 Personnel requirements
6.4 Safety requirements
6.5 Site requirements
6.6 Requirements for tools and testing equipment
6.7 Valve maintenance conditions
7 Maintenance process requirements
7.1 Surface grinding
7.2 Grinding the sealing surface
7.3 Repair welding
8 Valve replacement
8.1 Valve replacement principle
8.2 Parts replacement
8.3 Replacement principle of drive unit
8.4 Inspection of new valve
8.5 Valve installation
9 Valve commissioning
9.1 Commissioning organization
9.2 Debugging conditions
9.3 Debug project
10 Quality Control and Acceptance
10.1 Quality Control
10.2 Acceptance of the valve
10.3 Technical data management

Appendix A (Normative Appendix) Risk Control Measures for Power Station Valve Inspection

Appendix B (Informative Appendix) Attached Table of Valve Maintenance Information

Appendix C (Normative Appendix) Off-line valve sealing test method

Appendix D (Informative Appendix) Quality Management Attachment Table for Valve Maintenance Process

Foreword

This power station valve maintenance guide is a series of standards, divided into the following 9 parts.

--Part 1: General Provisions

--Part 2: Butterfly Valve

--Part 3: Check Valve

--Part 4: Ball Valve

--Part 5: Gate Valve, Globe Valve

--Part 6: Safety Valve

--Part 7: Regulating Valve

--Part 8: Special valves for power stations

--Part 9: Driving Device this part is Part 1: General Provisions.

This part is drafted in accordance with the rules given in GB/T 1.1-2009 "Guidelines for Standardization Work Part 1: Standard Structure and Compilation".

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This part was proposed by the China Electricity Council.

This part is under the jurisdiction of the Power Plant Valve Standardization Technical Committee.

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1 Scope

This part specifies the requirements for the organization, procedures, and quality management of the valve maintenance of power plant steam (gas) water, oil and other systems.

Mainly provide guidance for the technical management and quality control of related valve maintenance for the technical personnel of power plants and valve maintenance units.

This part is applicable to the overhaul of valves and their driving devices in power station steam (gas) water, oil and other systems.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document. For undated references, the latest version (including all amendments) applies to this document.

GB 150.4 Pressure Vessel Part 4: Manufacturing, Inspection and Acceptance GB/T 21465 Valve Terminology GB/T 22652 Qualification of Surfacing Welding Process for Valve Sealing Surface GB 26164 Electrical Safety Work Regulations GB/T 26480 Inspection and testing of valves GB/T 5796.4 Trapezoid Bolt Part 4: Tolerance DL/T 838 Guidelines for equipment maintenance of power generation enterprises DL/T 869 Welding technical specification for thermal power plant DL/T 5210.1-2012 Electric Power Construction Quality Acceptance and Evaluation Regulations Part 1 Civil Engineering DL/T 5210.5 is wrong! The reference source was not found. Electric Power Construction Quality Acceptance and Evaluation Regulations Part 5: Piping and System DL/T 5210.7 Construction Quality Acceptance and Evaluation Regulations of Electric Power Construction Part 7: Welding NB/T 47014 welding procedure qualification for pressure equipment NB/T 47015 Pressure Vessel Welding Regulations NB/T 47018.1 Technical Conditions for Ordering Welding Materials for Pressure Equipment Part 1: General Purchasing Rules NB/T 47044 Power Station Valve JB/T 6438 Technical requirements for plasma arc surfacing of valve sealing surface TSGD3001-2009 Pressure Pipe Installation License Rules GB 26164 Electrical Safety Work Regulations

3 Terms and definitions

"GB/T 21465 error! The reference source was not found. ", the terms defined in "DL/T 838" and the following terms and definitions apply in this standard.

Inspection

Measure, inspect, test, etc., the performance of the inspection items, and compare the results with the requirements of the standard to determine the activity carried out on

whether the performance is qualified.

Finished product protection Finished product protection refers to the protection of the owner's existing equipment, devices, parts and parts during construction or transportation. At the same time, During the construction process, take proper measures for some completed branches, sub-projects or parts to avoid damage caused by the construction of other parts work.

Side station

The side station refers to the on-site follow-up supervision activities carried out by the inspectors on the construction quality of key parts or key procedures.

4 Maintenance interval and scope

4.1

The maintenance interval of power station valves can follow the maintenance interval of the host equipment.

4.2

The main steam system, main water supply system, cooling and heating system, circulating water system, and condensate the valves of the system should be overhauled.

4.3

The other levels of maintenance should be based on valve characteristics, technical conditions, component life cycles, anti-accident measures plans and various monitoring information.

Determine the maintenance items of the valve, and arrange the annual inspection of the valve.

4.4

The maintenance interval can be reasonably extended on the basis of the specified maintenance interval according to the technical condition of the valve. The technical condition of the valve does not allow it to continue when working, maintenance should be arranged and measures should be taken to prevent accidents.

5 Valve maintenance process

Valve maintenance should be carried out in accordance with the maintenance process, which is shown in Figure 1.

Figure 1 Valve maintenance process