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

DL 5190.8-2019

Replacing DL 5190.8-2012

**Technical specification for electric power construction - Part 8:
Processing and preparation
(English Translation)**

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1 General

- 1.0.1 In order to standardize the technical management of the processing and preparation of power construction projects, the standards and technical requirements that should be implemented in the unified processing and preparation are specially made

Foreword

This part is based on the "On Printing and Distributing the 2017 Energy Sector Industry Standard System (Revision) Plan and English Version the requirements of the "Notice of the Translation and Publication Plan" (Guoneng Zongtong Technology [2017] No. 52) are set out in Part 8 Sub-processing and preparation" DL 5190.8-2012 revised on the basis of.

The "Technical Specification for Electric Power Construction" (DL/T 5190) consists of the following X parts.

DL/T 5190.1 Part 1 Civil Engineering DL/T 5190.2 Part 2 boiler unit DL/T 5190.3 Part 3 Steam Turbine Generator Set DL/T 5190.4 Part 4 Thermal Instrument and Control Device DL/T 5190.5 Part 5 Piping and System DL/T 5190.6 Part 6 Water treatment and hydrogen production equipment and systems DL/T 5190.8 Part 8 Processing and Preparation DL/T 5190.9 Part 9 Hydraulic Structure this part is part 8 of "Technical Specification for Electric Power Construction Construction" DL/T 5190.Processing and Preparation (hereinafter referred to as "this part").

The main contents of this part include. general rules, basic regulations, material inspection and storage, flue gas material pipes and their parts, soft drinks Pipelines and their parts, steel welded atmospheric pressure vessels, metal components, others, technical quality documents, etc.

The main contents of this section are revised as follows.

--Added content such as green construction and finished product protection and metal detection.

--Refer to the current industry standards to modify the relevant content of cold-formed pipes.

--Relevant technical data has been revised.

-Deleted the painting primer, platform steel ladder installation, etc. irrelevant to this section.

This part was proposed by the China Electricity Council.

This part is under the jurisdiction of the Thermal Power Construction Standardization Technical Committee of the Electric Power Industry.

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1 General

1.0.1

In order to standardize the technical management of the processing and preparation of power construction projects, the standards and technical requirements that should be implemented in the unified processing and preparation are specially made Set this part.

1.0.2

This Part is applicable to all kinds of new, expanded and rebuilt thermal power installation projects and nuclear power conventional island installation projects.

Construction technology management.

1.0.3

The technical requirements for processing and preparation construction shall not only conform to this part of the "Technical Specifications for Electric Power Construction Construction", but shall also conform to the current national the relevant standards.

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2.1 General rules

2.1.1

When materials and parts are transported, processed and stored, measures should be taken to prevent deformation, damage and corrosion.

2.1.2

When the working environment temperature is lower than the following temperature, the steel should not be cold worked.

1 Ordinary carbon steel -16°C.

2 Low alloy steel -12°C.

2.1.3

The machining of mechanical parts that do not indicate the technical requirements shall meet the following requirements.

1 The dimensional tolerances of linearity, angle and bore diameter without tolerances shall be in accordance with "Tolerance of inches" GB/T 1804 provides m-level accuracy.

2 The thread tolerances that are not specified shall comply with the 6-level precision requirements in the "Common Thread Tolerance" GB/T 197.

3 The surface roughness of the thread shall not be greater than Ra25μm.

4 The end of the thread should meet the requirements of GB/T 3 in "Ending, shoulder distance, undercut and chamfering of ordinary threads".

2.1.4

Forgings that do not indicate the technical requirements for dimensional tolerances, form and position tolerances and machining allowances shall be processed in accordance with the "Steel Die Forgings Tolerance and Machine Machining Allowance" GB/T 12362.

2.2 Green construction and finished product protection

2.2.1

The processing and preparation of green construction shall meet the following requirements.

1 New technologies, new processes, new processes, new equipment and new materials should be adopted, and highly polluting process technologies should not be used.

2 The construction site should adopt a circular channel, which is always combined with one another to reduce land occupation.

3 The layout of the site should optimize the process flow, shorten the transportation distance, and should be within the coverage of large hoisting machinery.

4 Turnover materials should be maintained regularly to increase the recycling rate.

5 Materials should enter the site in accordance with the processing flow and planned order, with a quota of materials, and a reasonable discharge to reduce waste.