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

**中华人民共和国电力行业标准**

DL/T 5039-1995

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**Specification for Design of Steel Gate in Hydraulic and  
Hydroelectric Engineering**

**水利水电工程钢闸门设计规范**

**Issued on March 05, 1995**

**Implemented on September 01, 1995**

**Issued by Power Industry of the People's Republic of China**



**Specification for Design of Steel Gate in Hydraulic and  
Hydroelectric Engineering**

Edited by:

Northeast Investigation Design and Research Institute of Ministry of Water  
Resources and Ministry of Power Industry

Approved by:

Ministry of Power Industry of the People's Republic of China

**Notice of Issuing the Power Industrial Standard *Specification for Design of Steel Gate in Hydraulic and Hydroelectric Engineering* by the Ministry of Power Industry of the People's Republic of China**

DIANJI [1995] No.256

To Grids, Provincial Bureaus, Institute of Hydraulic and Hydroelectric Planning and Design, Head Office of Hydraulic and Hydroelectric Engineering, Institutes of Investigation and Research, Hydroelectric Project Bureaus, Hydroelectric Manufacturers, Hydroelectric Headquarters and Scientific Research Institutes of Universities and Colleges Concerned:

This industrial standard of the power industry *Specification for Design of Steel Gate in Hydraulic and Hydroelectric Engineering* has been approved as the recommended standard and issued herein. Its number is DL/T5039 95 and it will be implemented from September 1, 1995.

Problems and opinions during the implementation shall be submitted to the Technical Committee for Standardization of the Hydroelectric Power Station Metal Construction and Hoist, Ministry of Power Industry and copied to the Standardization Leader Group Office.

This standard is published by the China Electrical Power Press.

May 3, 1995

## 1. General Provisions

- 1.0.1 This standard is established to implement the national technical and economic policies, ensure the quality, live up to the state-of-art technology, economic feasibility, and operation safety in the design of the steel gate.
- 1.0.2 This standard is applicable to the design of steel gates (including the trash rack) in the hydraulic and hydroelectric engineering.  
Besides, the design of the steel gates shall meet relevant regulations in the current national and industrial standards of the hydraulic and hydroelectric standard.
- 1.0.3 According to the job category, the steel gates in the hydraulic and hydroelectric engineering can be divided into:
- (1) Main Gate: such gates that assume main jobs and can start and stop in the dynamic water;
  - (2) Emergency Gate: such gates that when accidents happen to the downstream (or upstream) of the gate, can close in the dynamic water and when there is a need for the quick closedown; it is also called the stop gate. Such gates shall be started in the still water.
  - (3) Bulkhead Gate: such gates that can block off the water during the maintenance of the hydraulic structures and the mechanical equipment. Such gates shall be started and stopped in the still water.
- 1.0.4 During the design of gates, the following materials shall be available according to the specific circumstances:
- (1) Tasks of the hydro-junctions and the allocation of the hydraulic structures;
  - (2) Dimension of the gate orifice and the operation conditions;
  - (3) Status concerning the hydrology, silt, water quality, floater and meteorological phenomena;
  - (4) Conditions concerning the material, manufacture, transportation and erection of the gate;
  - (5) Geology, earthquake and other special requirements.
- 1.0.5 The selection of the gate orifice dimension and the design heads shall be in accordance with Annex A.
- 1.0.6 This standard adopts the allowable stress method for the structural checking calculation. In case that there is no clear calculated method, as long as the method can reliably and simply get the structural internal

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