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ICS 27.140
CCS H 48

SL

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SL/T 281-2020

Replacing SL 281-2003

Design specification for steel penstocks of water conservancy and hydropower engineering

水利水电工程压力钢管设计规范

(English Translation)

Issued on: November 30, 2020 **Implemented on: February 28, 2021**

Issued by: Ministry of Water Resources of the People's Republic of China

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1 Foreword

SL/T 281-2020 was issued by Ministry of Water Resources of the People's Republic of China on 30 November 2020 and has been in force since 28 February 2021.

It replaces the earlier edition SL 281-2003.

The SL/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

This standard applies to the design of penstocks in conventional hydropower stations, pumped storage power stations, pumping stations, water delivery projects, etc. The classification of penstocks shall be implemented in accordance with SL 252 "Water Conservancy and Hydropower Engineering Classification and Flood Standards". Water conservancy and hydropower engineering penstocks can be divided into the following types: 1 exposed pipe. 2 Underground pipes. 3 Buried pipes in the dam. 4 Steel lined

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reinforced concrete pipe. 5 Backfill tube. 6 Other tube types. The design of penstocks for water conservancy and hydropower projects shall not only meet the requirements of this standard, but also meet the requirements of relevant national standards.

SL/T 281-2020 falls under ICS 27.140, in the field of energy and heat transfer engineering.

This catalogue holds 23 other SL/T standards in that field.

In this catalogue, SL/T standards carry edition years from 1994 to 2026.

3 About this standard

Issued by: Ministry of Water Resources of the People's Republic of China

English translation: about 239 pages

Chinese original: about 362,350 characters

Supersedes the earlier edition SL 281-2003.

4 Related standards

Standards on related subjects:

GB/T 2102-2022 - Acceptance, packaging, marking and quality certification for steel tubular products

JG 225-2007 - Corrugated metal dusts for prestressee concrete

5 Classification and status

International classification (ICS): 27.140

Chinese Standard Classification (CCS): H 48

Prefix SL/T: recommended standard.

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