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

GB/T 35068-2018

**Operation and maintenance specification for oil and gas
pipelines**

油气管道运行规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the National Oil and Gas Standardization Technical Committee (SAC/TC355). This standard was drafted. China Petroleum and Natural Gas Co., Ltd. Pipeline Branch, China National Petroleum Corporation Beijing Oil Gas Control Center, China Petroleum & Chemical Corporation Natural Gas Branch, Sinopec Pipeline Storage and Transportation Co., Ltd., PetroChina Beijing Natural Gas Pipeline Co., Ltd., China National Offshore Oil and Gas Group Co., Ltd. The main drafters of this standard. Song Fei, Zhang Cheng, Tao Jianghua, Zhang Zeng, Teng Yanping, Zhu Yong, Yang Xiaotong, Ye Fang, Feng Wenxing, Yu Zhenhua, Zhang Jianjun, Guo Wei, Jia Lidong, Zhang Ni, Li Yunjie, Yang Yi, Zhang Yanmin, Liu Bing, Gao Shuguang, Wu Qingjiang, Qi Hongtao, Wang Wei, Liu Min, Zhang Yuxi, Wang Liangjun, Luo Run. Oil and gas pipeline operation specification

1 Scope

China's national specification for operating and maintaining oil and gas pipelines. It specifies the general requirements on the pipeline enterprise, its facilities and its personnel, the production preparation and commissioning, and the operation and maintenance regime that follows. It is the companion to the design and construction code, and it covers the far longer part of a pipeline's life. A transmission pipeline is built in a couple of years and operated for fifty, by people who did not build it, across land whose use changes around it: farmland becomes suburb, a road is widened over the easement, a contractor digs where nobody told him not to. Third party damage is the leading cause of pipeline failure worldwide, and almost everything in an operations regime that actually prevents incidents is about the outside world rather than the pipe - patrolling the route, marking it, liaising with whoever might dig, and responding when they do. The rest is inspection, corrosion protection, and knowing the pipeline's condition well enough to plan repairs before they become emergencies.

This standard specifies the technical and management requirements for the commissioning, operation, maintenance and repair of oil and gas pipelines. This standard is applicable to the design of GB 50251 or GB 50253 for the transportation of crude oil,

refined oil, natural gas, coalbed methane and coal. Operation management of onshore steel pipelines with gaseous media.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 8978 Integrated Wastewater Discharge Standard

GB/T 13609 Natural Gas Sampling Guidelines GB 17820 natural gas

GB/T 21246 buried steel pipeline cathodic protection parameter measurement method

GB/T 21448 buried steel pipeline cathodic protection technical specification

GB/T 23258 Steel Pipeline Corrosion Control Specification

GB 26860 Electrical safety work procedures Power plant and substation electrical part

GB/T 29639 Production and business unit production safety accident emergency plan preparation guidelines

GB 32167 Specification for the integrity management of oil and gas pipelines

GB 50251 gas pipeline engineering design specification

GB 50253 Oil Pipeline Engineering Design Specification

GB 50369 Oil and Gas Long Distance Pipeline Engineering Construction and Acceptance Specifications

GB/T 50393 steel petroleum storage tank anti-corrosion engineering technical standard

DL/T 969-2005 Substation Operation Guide GA1166 oil and gas pipeline system security

risk level and safety precautions SY/T 0087.1 Corrosion Evaluation Criteria for Steel

Pipelines and Storage Tanks Direct Evaluation of External Corrosion of Buried Steel

Pipelines SY/T 0087.2 Corrosion Evaluation Standard for Steel Pipes and Storage Tanks.

Direct Evaluation of Corrosion in Buried Steel Pipelines Technical specification for adding

pour point depressant to SY/T 5767 crude oil pipeline SY/T 5918 Buried steel pipeline

external anti-corrosion layer insulation layer repair technical specification SY/T 5921 vertical

cylindrical steel welding tank operation and maintenance repair specification SY/T

6069-2011 Specification for operation of oil and gas pipeline instruments and automation

systems SY/T 6325 Electrical Equipment Management Specification for Oil and Gas

Pipeline SY/T 6470 oil and gas pipeline general valve operation and maintenance

inspection and repair procedures SY/T 6503 Oil and gas engineering flammable gas

detection and alarm system safety specification SY/T 6828 Technical Specifications for Oil

and Gas Pipeline Geological Hazard Risk Management SY/T 7031-2016 Oil and Gas

Storage and Transportation Terminology TSG21 fixed pressure vessel safety technical
supervision procedures Technical requirements for maintenance of power supply systems -
Part 4. Uninterruptible power supply (UPS) systems

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