

ICS 75.200
CCS E98



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

GB/T 48150-2026

**Technical specification for gas transmission network system
reliability assessment**

输气管网系统可靠性评价技术规范

(English Translation)

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Foreword

GB/T 48150-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

It is under the responsibility of the Standardization Administration of China.

Classification: ICS 75.200; CCS E98.

1 Scope

Operators of natural gas networks need a systematic way to judge whether a transmission system can deliver as intended. This document establishes an indicator system for the reliability evaluation of gas transmission pipeline network systems and specifies the content, process and related requirements, including pipeline segmentation, evaluation indicators, data collection, reliability calculation, determination of reliability targets and the evaluation report. It applies to onshore, in-service, long-distance natural gas transmission pipeline networks.

Pipeline operators, network planners, asset integrity and risk teams, engineering consultancies and regulators can use it to structure assessments and report results in a consistent form. Annexes cover the data collection list and the calculation of reliability for pipeline segments and compressor units.

It is a recommended national standard (GB/T), voluntary unless adopted by contract or rule, and it takes effect on 1 March 2027.