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

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Pressure piping code - Transmission pipeline

压力管道规范 长输管道

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 34275-2017 "Pressure Pipeline Specifications for Long-distance Pipelines". Compared with GB/T 34275-2017, except for the structure In addition to adjustments and editorial changes, the main technical changes are as follows:

- a) The scope description and schematic diagram of the pipelines to which this document applies have been modified (see Chapter 1, Chapter 1 of the.2017 edition);
- b) Modified some terms and definitions (see Chapter 3, Chapter 3 of the.2017 edition);
- c) Added basic provisions (see Chapter 4);
- d) Added relevant technical requirements for high-grade pipeline steel pipes and induction heating bending pipes (see 5.2.1.4, 5.2.1.5, 5.2.1.8, 5.2.4.7, 5.2.4.15, 5.2.4.17);
- e) Added pipe support materials (see 5.3);
- f) Added the following information. filler metal, flux, diffusible hydrogen content of deposited metal, impact toughness of deposited metal, selection of filler metal and welding material complexity Inspection requirements (see 5.4);
- g) Deleted the transportation technology, process flow, utility engineering design, communication and control (see 5.3, 5.6, 5.7.4, 5.8 of the.2017 edition);
- h) Added design unit, design approval stamp, design documents and other requirements (see 6.1);
- i) Added strength design method (see 6.2.1);
- j) The design pressure and design temperature provisions have been modified (see 6.2.2, 6.2.3, and 5.1.2, 5.1.3 of the.2017 edition);

1 Scope

China's national pressure piping code for onshore oil and gas transmission pipelines. It specifies the basic requirements for materials, design, calculation, construction and installation, inspection and testing, safety protection, trial operation and commissioning, production, use, maintenance and emergency repair. It is one of the largest documents in the Chinese standards catalogue and one of the few that follows a pipeline from the steel mill to the repair crew. That span is the point. A transmission pipeline is not a product that is bought and installed but a system built in the field, welded joint by joint across thousands of kilometres, buried, and then operated for fifty years by people who were not there when it was laid. Almost every serious pipeline failure traces back to something done during construction - a weld, a coating holiday, a bend, a backfill - and discovered decades later.

Writing the design rules, the construction rules and the maintenance rules into one code is what keeps the assumptions of each visible to the others.

1.1 This document specifies the materials, design, calculation, construction and installation, inspection and testing, safety protection, trial operation and commissioning of onshore oil and gas long-distance pipelines. Basic requirements for production, use, maintenance and emergency repair.

Note. For the composition of long-distance pipelines, see Appendix A.

1.2 The scope of onshore long-distance oil and gas pipelines is shown in Figure

1. The pipelines within the solid lines and solid frame in the figure are applicable to this document.

Note. Long-distance pipelines extend into refineries, oil depots, city gas gate stations, gas storage facilities, LNG receiving stations, gas power plants, oil (gas) processing plants and other factory boundaries. The interface between long-distance pipelines and other types of pipelines is described in the design documents. Figure