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**Classification codes and cartographic symbols for land
pipeline features**

陆域管线要素分类代码与符号表达

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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.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Classification code and symbol expression of land pipeline elements

1 Scope

This document specifies the classification, coding and symbolic expression of land pipeline elements.

This document is applicable to the data collection, database construction, updating, sharing, exchange, information system construction and pipeline map production of long-distance and urban pipelines.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 pipeline

Pipelines for transporting liquids, gases or powders, cables for transmitting electricity and information, as well as channels and corresponding ancillary facilities.

3.2 Pipeline section

A linear feature formed by the logical connection of two pipeline point features.

3.3 Pipe

Tubular equipment consisting of pipe sections, fittings and supports.

4.1 Classification

4.1.1 Element types are divided into major categories, medium categories, minor categories and subcategories according to their subordinate relationships.

4.1.2 The major elements are divided into two categories, including. long-distance pipelines and urban pipelines.

4.1.3 Elements of the middle category Based on the major categories, long-distance pipelines are divided into five categories according to the transport medium, including. transmission lines, communication lines, oil pipelines, Pipelines, gas pipelines, water pipelines; urban pipelines are divided into 8 categories, including. power pipelines, communication pipelines, water pipelines, drainage pipelines, gas pipelines Pipelines, thermal pipelines, industrial pipelines, and integrated pipeline galleries.

4.1.4 The element subcategories and sub-categories are subdivided according to purpose and function based on the classification at the previous level.

4.1.5 The classification of elements shall be carried out in accordance with Appendix A.

4.2 Code Structure

The classification code adopts a 6-digit decimal code and is implemented according to Appendix A. The code structure is shown in Figure 1.