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PEOPLE'S REPUBLIC OF CHINA**

GB/T 47120-2026

Specification for the digital delivery of pressure vessels

压力容器数字化交付规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Boilers and Pressure Vessels (SAC/TC262). This document was drafted by: China Special Equipment Inspection and Research Institute, China Petrochemical Corporation Shanghai Engineering Co., Ltd., and China Petrochemical Engineering Construction Co., Ltd. Limited Liability Company, Hualu Engineering & Technology Co., Ltd., Beijing Branch of China Huanqiu Engineering Co., Ltd., Hefei General Machinery Research Institute Co., Ltd. The company, CNOOC Petrochemical Engineering Co., Ltd., Beijing Sigma Simulation Technology Co., Ltd., Xiamen Pen and Ink Cloud Technology Co., Ltd., and China Chengda Engineering Co., Ltd. Cheng Co., Ltd., Shanghai Lanbin Petrochemical Equipment Co., Ltd., Ningbo Special Equipment Inspection and Research Institute, Erzong (Deyang) Heavy Equipment Co., Ltd. The company is Dalian Product Quality Inspection and Testing Research Institute Co., Ltd. The main drafters of this document are. Chen Zhiwei, Huang Zhenglin, Zhou Yunmeng, Xie Zhigang, Sun Liang, Ren Chao, Li Xiaobo, Chen Wei, Zou Tong, Wu Liang, and Yang Fuchang. Cheng Guangqing, Wen Huanhuan, Li Guolong, Qin Zongchuan, Ma Yiming, Chen Dingyue, Zhu Yongyou, Jiang Haiyi, Xie Tao, Wang Kai. Digital Delivery Specifications for Pressure Vessels

1 Scope

GB/T 47120-2026 is the Chinese national standard covering handing over a pressure vessel as data as well as steel - the design and calculation records, the material

certificates, the weld map and NDT results, the heat treatment charts and the inspection history, structured so the owner's integrity system can use them from day one. First edition, in force since 1 May 2026, and it is the vessel counterpart of the power plant data handover standard GB/T 32575-2026. It was issued on 28 January 2026 and has been in force since 1 May 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the basic requirements, delivery content, delivery process, and delivery platform for the digital delivery of pressure vessel construction. This document applies to the digital delivery of pressure vessels, covering stages such as design, manufacturing, construction (or installation), and supervision and inspection. It does not apply to non-pressure vessel delivery. For static equipment, please refer to this document for implementation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 150.1 Pressure Vessels - Part

3 Terms and Definitions

3.1 Digitalization Information technology is applied to transform information related to engineering design, manufacturing, construction (or installation), and supervision and inspection into structured and unstructured data. Data is the process of establishing data organization models and using computers to express, transmit, and process data.

3.2 Digital delivery The process of digitally creating and transferring static information related to the construction of pressure vessels, with digital delivery objects at its core.

3.3 The level of detail in the information delivered digitally is related to information usage requirements, information collection and processing capabilities, and costs.

3.4 Information model The data, documents, and 3D models established during the digital delivery of pressure vessels, centered on the digital delivery object, and their associated relationships. relation.

3.5 Delivery information Information generated during the construction of pressure vessels

that needs to be delivered, including design, manufacturing, construction (or installation), and supervision and inspection information, etc. Information models and other information associated with digital delivery objects.

3.6 deliverablesdeliverables Electronic documents that carry delivery information to facilitate handover.

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