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PEOPLE'S REPUBLIC OF CHINA**

GB/T 47455-2026

Validation requirements for space station payloads

空间站载荷入站确认要求

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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 is under the jurisdiction of the National Manned Spaceflight Standardization Technical Committee (SAC/TC570). This document was drafted by: Beijing Spacecraft Overall Design Department, Shanghai Aerospace Systems Engineering Research Institute, Harbin Institute of Technology, and the Chinese Academy of Sciences. The college's Space Application Engineering and Technology Center, China Astronaut Research and Training Center, PLA Unit 63921, and China Electronics Technology Group Corporation Electronic Science Research Institute of Group Co., Ltd. The main drafters of this document are. Li Zhe, Luo Wencheng, Zhao Zhenhao, Guo Juan, Zhang Qiao, Wang Caijian, Xie Zongwu, Zhang Jian, Jiang Ji, Ding Rui, Li Tao, and Li Liling. Xu Zongfei, Li Wei, Jia Yanmei, Yu Xihe, Zhao

Liping, An Meizhen, Yang Jinlu, Xu Wenlong, Zhang Qiang, Lin Bingkun. Space station payload arrival confirmation requirements

1.Scope This document specifies the objects, division of responsibilities, projects, methods, timing, implementation documents, conditions, and confirmation items for space station payload arrival verification. Requirements such as implementation and procedures. This document applies to the entry confirmation process for payloads that need to be carried out onboard to the space station or disposed of by the space station.

4.Confirmation of entry personnel Payloads that need to be ascended to the space station for use or disposed of via the space station should undergo arrival confirmation, including.

- a) Payloads carried aboard a manned or cargo spacecraft and used on the space station;
- b) Payloads launched as cargo with the space station extension module and used on the space station;
- c) Installing, replacing, or discarding payloads for visiting spacecraft via the space station.

1 Scope

GB/T 47455-2026 is the Chinese national standard covering what a payload has to satisfy before it is allowed aboard a space station - the safety review, the interface verification, the materials and the containment of anything hazardous, and the crew operations it will require. First edition, in force since 1 November 2026. It was issued on 30 April 2026 and takes effect on 1 November 2026, as a first edition. 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.

12.2 The following requirements shall be met during the load arrival confirmation application stage.

- a) Submit the inbound confirmation load list, status report, and load IDS. After the overall project clarifies the upstream load configuration, confirm the load direction. The party submits an inbound confirmation payload list and status report, clarifies the payload technical status and interface status, and submits the payload IDS.
- b) Submit a payload acceptance confirmation application. After the payload has completed development and meets the acceptance confirmation conditions specified in Chapter 10, the payload orientation is confirmed. Fang submitted a payload entry confirmation application form.
- c) Define the load arrival confirmation items. The confirming party and the load party jointly define the load arrival confirmation items and countersign the load arrival confirmation items. Matrix table.

12.3 During the load arrival confirmation preparation phase, the confirming party and the load party shall jointly carry out the load arrival confirmation preparation work and meet the following requirements.

- a) The confirming party and the load party shall prepare the relevant documents in accordance with the provisions of Table 1.
- b) Determine the load arrival confirmation location. The confirming party and the load party shall jointly confirm the inspection instruments and equipment, work area environmental conditions, and technical requirements. Technical safety status. The instruments and equipment used for payload entry verification must be calibrated and within their validity period.

Note. The payload arrival confirmation location is generally the space station arrival confirmation laboratory.

- c) Establish an entry confirmation team and an expert group in the relevant professional field.
- d) The confirming party and the load party shall prepare the implementation documents in accordance with the provisions of Table 1.

12.4 The following requirements shall be met during the load arrival verification implementation phase.

- a) The confirming party organizes the load party to conduct document confirmation in accordance with the provisions of Chapter

11. For loads that fail document confirmation, the confirming party provides a written... According to the feedback, after the load party completes the load improvement and meets the conditions for entry confirmation, the confirming party will reorganize and carry out the document confirmation.

- b) For loads confirmed through documentation, the confirming party shall organize the load party to conduct inspection and confirmation in accordance with the provisions of Chapter

5 Division of Responsibilities

5.1 The main entities involved in the load arrival verification work are the verification party and the load party.

5.2 The responsibilities of the confirming party are as follows:

- a) Responsible for developing the implementation plan and detailed rules for payload arrival confirmation, and clarifying the workflow;
- b) Establish the necessary hardware and software products, testing equipment, and site support conditions for payload arrival verification, and organize the payload arrival process.

Validation work includes document validation, inspection validation, and testing validation;

- c) Coordinate with the load party to determine the load arrival confirmation items to be carried out, and sign the load arrival confirmation item matrix table (see Appendix A);
- d) Organize the payload provider to carry out payload arrival confirmation documents and product preparation, and specific implementation work;
- e) Provide a conclusion on load arrival confirmation. For loads that fail arrival confirmation, a written opinion should be provided; for loads that pass arrival confirmation, a written opinion should be provided. Sign the payload arrival confirmation form (see Appendix B).

5.3 The responsibilities of the load side are as follows:

- a) Submit the inbound verification product list (see Appendix C) to the verification party, confirm the inbound verification items to be carried out for the payload with the verification party, and sign the agreement. Load arrival confirmation item matrix table (see Appendix A);
- b) Submit the necessary documents for payload arrival confirmation to the confirming party;
- c) For loads requiring inspection and testing verification, submit the loads to the verification party for inspection and testing, and cooperate with the verification party in carrying out the verification process. Entry confirmation implementation work;
- d) For loads that fail the inbound confirmation, improvements should be made and the inbound confirmation should be resubmitted.

6 Entry Confirmation Items

6.1 The load arrival verification items include.

- a) Mechanical interface confirmation;
- b) Power supply interface confirmation;
- c) Hot-switch interface confirmation;
- d) Information interface confirmation;
- e) Robotic arm interface confirmation;
- f) Confirmation of the laptop computer software interface;
- g) Confirmation of cargo entry/exit interfaces;
- h) Confirmation of the on-orbit release interface of the micro-aircraft;
- i) Hazard identification and control verification;
- j) Confirmation of compliance with medical indicators;