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

GB/T 32306-2015

General requirements of space experiments for space system

航天系统空间实验通用要求

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses the translation method identical with ISO 14619:2003 "General requirements for space systems space experiments." the standard proposed by China Aerospace Science and Technology Corporation.

This standard by the National Aerospace Technology and Application of Standardization Technical Committee (SAC/TC425) centralized.

This standard was drafted. China Aerospace Standardization Institute.

Introduction

This standard establishes the aerospace products in the preparation and implementation of space experiments, as well as the collected data for basic processing requirements.

Space systems have been widely used to solve various practical problems of mankind. Space experiments can provide an ideal experimental conditions for certain research Member scientific space missions must seize the opportunities provided by the full use of function space systems and expand its range of applications, through the air Between experiment results verified.

Space experiments proposed resources consumed in aerospace systems should be as small as possible. Space experiments often run as a spacecraft system itself Part of the operation, joint space experiments done by the aerospace system's hardware and software systems. In this process, the need to reach space experiments the following two objectives.

- a) ensure the successful implementation and successful completion of the experiment;
- b) to avoid interference due to the operation of space systems and impair its performance.

Way to achieve these goals is to achieve experimental space and aerospace systems integration standardized processes. This standard specifies the space experiment Ground

preparation and implementation of specific procedures in experimental operation and experimental results track process.

Space systems - General requirements for space experiments

1 Scope

This standard specifies the preparation and implementation of procedures and general requirements for the space experiment results processing for manned and unmanned spacecraft System, but not for experiments on sounding rocket carrying the probe carried out. This standard may be different depending on the pilot project and empty Conditions cut across platforms.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 14300-1 Space Systems Project Management - Part 1. Project structure
(Spacesystems-Programmmanage-ment-Part 1. Structuringofaprogramme) ISO 14300-2
Space Systems Project Management - Part 2. Product Assurance
(Spacesystems-Programmmanage-ment-Part 2. Productassurance) ISO 14620-1 Space
systems - Safety requirements - Part 1. System Security
(Spacesystems-Safetyrequirements-Part 1. Systemsafety) ISO 14620-2 Space systems -
Safety requirements - Part 2. launch operations (Spacesystems-Safetyrequire-ments-Part
2. Launchsiteoperations)

3 Terms and Definitions

The following terms and definitions apply to this document.

Space Experiment for information in scientific research projects targeted operation or observation activities undertaken in space.

Space Experiment system A set of experiments in space and aerospace systems in the integrated device-specific (or support devices).

Space Experiment system designers spaceexperimentssystemdesigner Space experiments responsible for systems development, delivery and guaranteed performance of staff.

Space experiment project manager Responsible officer space experiment project management.

Space Experiment Technical Manager spaceexperimentoperationsmanager Responsible for operational management and organizational experiments in space at all stages of the

space experiment executives whole process.