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Space project risk management

航天项目风险管理

(English Translation)

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Foreword

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

This standard uses the re-drafting method to modify ISO 17666.:2003 "Aerospace System Risk Management".

There are technical differences between this standard and ISO 17666.:2003, and the terms involved in these differences have passed through the margin the vertical single line (|) is marked. A list of the corresponding technical differences and their causes is given in Appendix A.

This standard has made the following editorial changes.

- Added information on Appendix A to guide the use;

--- Replace original appendix A with appendix B.

This standard is proposed by China Aerospace Science and Technology Corporation.

This standard is nationalized by the National Aeronautical Technology and Its Application Standardization Technical Committee (SAC/TC425).

The drafting of this standard. China Aerospace Standardization Institute, China Space Technology Research Institute.

Introduction

Risk is a threat to the successful achievement of project objectives that have a negative impact on the cost, schedule and technical performance of the project ring. But reasonable control of risk may also lead to new opportunities that have a positive impact.

The goal of project risk management is to systematically, comprehensively, and economically and effectively, under the constraints of project technology and planning.

Do not evaluate, reduce, accept and control the risk of aerospace projects. The risks should be related to the usual management, planning (such as cost, schedule) and technology (such as weight, Energy, credibility, security) and other areas of the project resources to conduct a comprehensive trade-off. Risk management is a repetition throughout the project's lifecycle Iteration process, the number of iterations depends on the progress of the project phase and the baseline changes that have been identified. Baseline changes will affect the project resources.

Risk management should be implemented at all levels in the customer-supplier network.

Project risk management should take full advantage of systems engineering, safety analysis, key projects, credibility, critical path, cost analysis, etc.

The method of project risk. The primary objective of risk management is to prioritize the success of project objectives in accordance with risk Focus on the main risks.

Aerospace project risk management

1 Scope

This standard specifies the general principles, procedures, implementation and documentation requirements for aerospace project risk management.

This standard applies to the risk management of aerospace project life cycle.

2 Terms and definitions

The following terms and definitions apply to this document.

Risk of risk

Does not expect the state or condition, it has the possibility of occurrence, and may have potential negative consequences for the project.

Note: the risk arises from the lack of uncertainty about the predictions or controls of the events, the risks are everywhere, and the uncertainty is uncertain;

Sex will reduce the risk.

Single risk individual risk Exist in the project, as individual risk terms, can be individually identified, assessed and reduced risk.

Total risk overall risk the integration of the individual risks of the project and the assessment of its mutual impact.

Note: Total risk can be expressed qualitatively and quantitatively.

Risk management policy Organizational attitudes to risk include how to manage risk, risk acceptance criteria, and key requirements for risk management programs.

Risk management in accordance with the established project risk management policy, the project resources system and repeated iterative optimization.

Risk management process Including all activities such as risk identification, assessment, reduction, acceptance and feedback.

Risk reduction

Reduce the likelihood of risk occurrence or the implementation of its serious measures.

Risk information communication Communicate the information and data needed for project risk management to project managers and related personnel.

Risk index

The value of measuring the size of the risk is a combination of the likelihood of the risk and the seriousness of the consequences.