

56th IAA SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE  
ACTIVITIES (D5)Interactive Presentations - 56th IAA SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE  
MANAGEMENT IN SPACE ACTIVITIES (IP)Author: Mr. Haiguang Liu  
China Academy of Launch Vehicle Technology(CALT), China, lhg82@163.comRESEARCH AND PRACTICE ON TECHNICAL CONFIGURATION MANAGEMENT OF A NEW  
AIRCRAFT**Abstract**

A new aircraft has the characteristics of new supporting mode, large progress pulsation, high degree of parallel development , and many changes in technical status. Therefore, how to effectively control the technical status of this aircraft, ensure that the technical status is correct under the condition of multi-line parallel, and avoid the schedule delay and economic losses caused by product scapping and rework due to the uncoordinated technical status, are the key points of the aircraft quality management. On the basis of fully inheriting the traditional space project quality management, we integrate the experience of aviation and aerospace technical configuration management, and work in an innovative manner. A number of management methods are used, such as “Annual baseline of technical status”, “Flight products production confirmation” and “Technical status changes upgrade approval level”. Through the implementation of the technical configuration management methods , the technical state of the aircraft is correct, the documents, drawings and physical products are consistent. In this paper, taking a new aircraft project as an example, the exploration and practice of its technical configuration management are described. It also provides a useful reference to the future aircraft technical configuration management.