

SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Services, Missions, Operations and Facilities (2)

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AN ANALYTICAL RESEARCH FOR THE DESIGNING REQUIREMENTS OF GENERAL
ASSEMBLY-TEST BUILDING OF SPACECRAFT LAUNCH SITE

Abstract

In this paper, the analyze and research method for the designing requirement of general assembly-test building of spacecraft launch site has been given, based on the technical guideline and task content. All the designing requirement elements have been listed, including: Building scale, Building support capabilities, Building circumstance. Rules and calculation methods of requirement elements have been illustrated, as well as the architecture designing criterion which the elements refer to. In addition, the analytical method of designing requirement and guideline determination, including engineering experience data, are also shown. By engineering analytical method and put forward practical requirement items, reasonably and practicable designing requirement parameters can both meet the demands of work at the launch site, and properly take into account the future development of the expansion. Also necessary to meet the specifications of architectural design department and building design. The design requirement based on the work of space launch requirement of the engineering tasks requires a combination of practical experience with mission expectation. The method is useful for the person who is interested in building design of spacecraft launch site.