

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Vehicles in Service or in Development (1)

Author: Mr. Ziyu Wang

Beijing Institute of Aerospace Systems Engineering, China Aerospace Science and Technology Corporation
(CASC), China, wzy8564@163.com

Dr. Yu Hu

CALT,CASC, China, hu-yu-1987@163.com

Dr. Yuandong Zhang

China Academy of Launch Vehicle Technology, China, zyd_0326@126.com

Dr. Yue Peng

Beijing Institute of Aerospace Systems Engineering, China Aerospace Science and Technology Corporation
(CASC), China, penpen1102@163.com

RESEARCH ON THE DEVELOPMENT OF TEST AND LAUNCH CONTROL SYSTEM IN CHINESE
NEXT GENERATION LAUNCH VEHICLE

Abstract

Test and Launch Control System is one of the most important subsystems of the launch vehicle, which is responsible for power supply, system test, parameter measurement, launch control and failure diagnosis. Based on the research progress in the field of system architecture and advanced technologies at home and abroad, the development trends of the test and launch control system in Chinese was summarized. The development thoughts and the main key technologies are put forward through five aspects: integration technology, intelligent technology, the requirements of rapid test, wireless communication, general technology. It provides a reference for the development and upgrading of launch vehicle test and launch control system higher requirements. Key words: Test and launch control system; Intelligent launch vehicle; Rapid test; 5G; General technical