

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

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THE RESEARCH OF TEST AND LAUNCH CONTROL TECHNOLOGY ON NEW GENERATION
LAUNCH VEHICLES**Abstract**

The New Generation Launch Vehicles of Long March Family launch vehicles, including LM-5, LM-7 and LM-heavy are suitable for deep space exploration missions. These launch vehicles can be employed for various deep space exploration missions according to different launch programs and payload capability requirements. As the information technology developing greatly the automation grade has been greatly improved in test and launch control system of launch vehicle. Based on the analysis for the major defect—the “intelligence completeness and convenience” as the development trend of the system is proposed in order to decrease the number of professional technical support engineers improve test coverage and effectiveness and simplify operation in the field. Some technologies proposed in this paper has been adopted in Chinese new generation launch vehicle and with the maturity of these technologies it will greatly improve the competitiveness of the new generation launch vehicle.