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

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FUTURE PLAN OF THE EPSILON LAUNCH VEHICLE DEVELOPMENT

Abstract

The rst ight of Epsilon Launch Vehicle (Epsilon) has succeeded on September 14, 2013. However, the development of Epsilon has not been nished. We are planning to enhance Epsilon step by step, to keep up with demands by payload side. Main purposes of this enhancement are the reduction of the launch cost and the establishment of the performance proper to the future payloads. As the technical measures toward those target, simplification of motor structure, reconstruction of avionics system, and re-sizing of each stage are considered. Simultaneously the research for proper performance target to the small satellite market and the science section has been implemented continuously. This paper describe their performance targets, technical measures and the development plan.