

SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Small Launchers: concepts and operations (7)

Author: Mr. Andrew Nelson
XCOR Aerospace, United States, anelson@xcor.com

Mr. Mark Street
XCOR Aerospace, United States, mstreet@xcor.com

Mr. Daniel DeLong
XCOR Aerospace, United States, dan@xcor.com

XCOR'S NANO-SATELLITE LAUNCHER USING THE LYNX REUSABLE SUBORBITAL VEHICLE

Abstract

The ability to launch a 10-15 kg satellite into a circular 450 km orbit within 24 hours of a defined need for under USD \$500,000, is a capability that XCOR believes will drive strong market adoption and unleash revolutionary innovations in satellite design, applications and operations. This paper presents an overview of the XCOR expendable nano-satellite launcher that utilizes the Lynx reusable suborbital vehicle as a low cost first stage. Included in the overview are high level design elements, satellite requirements, launch parameters, estimated mass versus angle of inclination versus altitude, and other pertinent data. Additionally, estimated pricing and market sizing data is presented. A significant majority of this paper will be new information never presented prior to this conference.