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2019 OPENING OF A NEW EQUATORIAL COMMERCIAL SPACEPORT IN AUSTRALIA

Abstract

The principals of Equatorial Launch Australia are trusted leaders in the space industry both within Australia and the United States. Their previous experience in developing space launch facilities has been successfully demonstrated over the past 20 years. Their project management and systems engineering experience is augmented by the involvement of key minds in academia, science and government and cutting edge commercial providers. TriSept Corporation was founded in 1994 as a launch integration and engineering service provider to both government and commercial customers. TriSept and its personnel offer extensive experience in both large spacecraft and small satellite dedicated and rideshare missions. We have been direct participants in the launch of 200+ satellites on 70 missions using 21 different launch vehicles from 13 different launch sites. The paper will focus on the ELA's Arnhem Space Centre, in the northern territory of Australia. A growing commercial spaceport site offering stability in terms of favourable weather, politics, and trade relations and specifically aligned to support Asia pacific, commercial and government customers. Leveraging the extra rotational velocity imparted from launching near the equator, rapid, reliable and cost-effective access for Space Situational Awareness (SSA) missions to LEO, GEO and deep space. This unique location coupled with TriSept's proven experience in small satellite integration and launch will help fill a much-needed gap within the small satellite industry for available, reliable, cost-effective space launch services. It will address the following details: • Advantageous access for smaller SSA platforms to demonstrate technologies • Example SSA missions that would have been more cost effectively launched here • Current state of the launch site and planned architecture to be brought online this year • Missions currently planned from the site and future launch providers • Benefits of equatorial location to launch providers and spacecraft customers • Export process and regulatory acceptance with the Australian space agency • Areas of expansion available