

DARPA-SN-12-06: PHOENIX Industry Day(s)

Abstract: Surrey Satellite Technology

Surrey Satellite Technology (Surrey) is the world's leading supplier of small satellite spacecraft solutions and services. Over the last thirty years, Surrey has pioneered the use of small satellites for missions of increasing utility delivering solutions to the problems of today in areas such as Earth Observation, Space Situational Awareness and Navigation. Surrey has launched thirty six spacecraft into various orbits and has built up almost two hundred years of in-orbit operational experience. Customers range from commercial entities through to major primes as well as national and international space agencies.

Surrey has an unrivalled degree of vertical integration with a capability to build all spacecraft elements from structure to avionics to payload. This ability allows Surrey to support the Phoenix program either as a full spacecraft supplier or discrete subsystem supplier. Arguably of most relevance to the Phoenix program are:

- Proven ability to build highly reliable and cost effective spacecraft platforms in the range of 50kg to 600kg.
- Unrivalled experience launching as a secondary payload on vehicles around world. Surrey spacecraft launched on Delta, ESPA (Atlas V) and Athena.
- Wireless communication architectures, with Surrey a partner delivering such expertise on the DARPA F6 program.
- Low-cost high data rate X-band communication systems including antenna pointing mechanisms.
- Advanced space proven small satellite propulsion systems for multiple station acquisition maneuvers.

Surrey will be attending both the East and West Coast Phoenix industry days and is looking forward to customer discussions as well as interaction with potential teaming partners.

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