



Radar Development and Testing on Government Contract

RE: Form 442 Q4: Government Project Description, Exhibit

File Number: 0935-EX-CN-2018

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Systems & Technology Research (STR) is leading efforts on the DARPA radar development project called "Radar Net." We are supporting a Phase 2 development effort.

The contract number is FA8750-15-C-0023. The contracting agency is USAF, AFMC, Air Force Research Laboratory, 26 Electronic Parkway, Rome, NY. 13441-4514

The project will culminate in delivery of a radar sensor system, titled SERVAL (Software-defined Efficient Radar Versatile, Affordable, Lightweight), which we seek to conduct flight tests in various key locations in the surrounding area of ourselves in Boston, MA, as well as remote sites near Ann Arbor, MI, Plano, TX, and Huntsville, AL. STR is leading the efforts and will oversee testing and operation of the system.

This phase will involve performance testing of our system, requiring a larger footprint in both the Boston, MA area as well as the Ann Arbor, MI area, compared to those conducted under our existing STA (WI2XGL). A maximum of two aircraft will be outfitted with systems and simultaneously operating in the same region with identical radar equipment.

Altitudes will still be constrained to < 10,000 ft, using the same antenna systems as previously used. However, an expanded instantaneous bandwidth (800 MHz) will be required to be tested, hence the expanded action frequency range between 8.1 and 8.9 GHz, as well as 9.2 and 10.2 GHz, are being requested in the Boston area.

This effort will be expected to begin in January, 2019, and extend for up to 24 months or contract end. The primary area of operation will be in the Boston, MA region, with occasional operations in the other areas.