OBJECTIVES

The purpose of the SBIR Phase I is to gather requirements for a Wireless Sensor Network and produce a basic design for the system. This SBIR is designed to advance the capabilities of the Flight Test instrumentation through the integration of wireless technologies.

ACCOMPLISHMENTS

NOTABLE DELIVERABLES PROVIDED

Phase I deliverables included
1. Interim Technical Report
3. Phase I Final Briefing (including briefing charts)

KEY MILESTONES MET

1. Collected requirements from NASA personnel and other flight test organizations
2. Generated a system-level design along with designs for the Remote Sensing Units, Transceiver Unit, and Data Collection Unit.

FUTURE PLANNED DEVELOPMENTS

PLANNED POST-PHASE II PARTNERS

- NASA – Armstrong Flight Research Center
- Major defense contractor flight test organizations
- Major satellite manufacturer

PLANNED/POSSIBLE MISSION INFUSION

Planned/Possible Mission Infusion
- Installation on flight test aircraft
- Use as a compliment to weapons stores testing
- Monitor wind-tunnel testing

PLANNED/POSSIBLE COMMERCIALIZATION

- Monitor NASA, DoD, and commercial satellites for health
- Monitor commercial rocket payloads from ground to orbit
- Monitor rocket performance for DoD and commercial applications (as complement to the current telemetry systems)

CONTRACT (CENTER) NNX15CD13P (AFRC)

SUBTOPIC A2.01 Flight Test and Measurements Technologies

SOLICITATION-PHASE SBIR 2015-I

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