



Operationaly Responsive Space-5

“SensorSat Demonstration”

MISSION DESCRIPTION

The ORS Office, in partnership with the Space and Missile Systems Center (SMC) Space Superiority and Advanced Systems and Development Directorates, is developing a mission to answer a USSTRATCOM need in Space Situational Awareness (SSA). The ORS-5 program has contracted with MIT/Lincoln Labs Federally Funded Research and Development Center to develop, build, and launch an operational demonstration of the SensorSat space vehicle. MIT/LL is providing a unique technical approach, operational concept and accelerated program schedule. The ORS-5 mission also would act as a pathfinder for technologies to be used in a follow-on to the current Space Based Space Surveillance satellite. The ORS-5 program demonstrates a low cost small satellite launch capability and autonomous operations via the existing Multi-Mission Space Operations Center ground system architecture.

PROGRAM OBJECTIVES

The overall objectives of the ORS-5 program are, in priority order:

- Demonstrate technologies that could prove “good enough” for geosynchronous SSA
- Create risk reduction opportunities to a future program of record
- Develop and demonstrate ORS enablers and principles

Partners

SMC Space Superiority Directorate
 SMC Advanced Systems and Development Directorate
 SMC Launch Systems Enterprise Directorate
 USSTRATCOM AFSPC
 MIT/Lincoln Labs Orbital ATK

Major Milestones

- DoD EA for Space Program Approval: Feb '14
- Space Vehicle contract Award: Summer '14
- SensorSat Optical Train Demo: Spring '15
- Launch Service Contract Award: Summer '15
- SensorSat Flat-Sat Demo: Fall '15
- Launch Service Critical Design Review: Spring '16
- Test Readiness Review: Summer '16
- Factory Compatibility Test: Winter '16
- Initial Launch Capability: Summer '17

Learn more about
 Operationaly Responsive Space at:
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