

247. AIR AND SPACE TRAFFIC CONTROL CONSIDERATIONS FOR COMMERCIAL SPACE TRANSPORTATION

PROJECT AT-A-GLANCE

- **AST RDAB POC:** Demidovich, Nick
- **AST RESEARCH AREA:** 1.1 STM - Integration & Operations
- **PRINCIPAL INVESTIGATOR:** Durrance, Sam
- **EXECUTION ENTITY:** FIT
- **PERIOD OF PERFORMANCE:**
- **STATUS:** Ongoing

PROJECT DESCRIPTION

PURPOSE: The current ATC system employs both terminal control (ATCT) and En Route control (ARTCC) systems to manage air traffic up to 60,000 ft (FL 600). In order to integrate atmospheric traffic with transitional aircraft (atmospheric to space, and space to atmospheric), concepts and procedures for integration need to be developed.

OBJECTIVES:

GOALS: (1) Determine if FAA's current NAS architecture can accommodate hypersonic vehicles transitioning all Class A Airspace. (2) Explore TCAS modification, NAVAID usability and all systems anticipated for NextGen

STATEMENT OF WORK

1. Interview FAA's ATC Procedures specialists and solicit anticipated problems caused by launch and recovery operations. Sort and categorize problems, concerns and possible solutions.
2. Interview FAA Tech Center airspace test personnel and solicit their requirements for developing launch and recovery airspace research. Formalize their requirements and integrate them into the work plan.