Advanced Aerospace Weapon System Applications Contract Status

Contract
HHM402-08-C-0072

(b)(3):10 USC 424;(b)(6)

8 May 2009

This Briefing is Classified UNCLASSIFIED
On Track, On Schedule, and Within Cost

- Technical approaches being implemented by contractor are established, traditional techniques within intended scope of contract
- SCI clearance processing has been successfully completed for all key personnel
- Technical report deliverables (double the minimum contracted for) will be completed on schedule
- Payments to contractor have commenced smoothly, used at slightly below the anticipated burn-rate
Overview

- July 08 Supplemental appropriation tasked DIA to study “foreign advanced aerospace weapon threats from the present out to 40 years in the future”
  - $10M in FY08 funds provided in the initial appropriation

- Bigelow Aerospace Advanced Space Studies LLC (BAASS) won contract – commenced 21 September 2008

- Support for contract was mentioned by Sen. Harry Reid in a meeting with on 13 November 2008
Advanced (unconventional) aerospace weapon system technical studies (threat projections through 2050 timeframe – not extrapolations of current technology) in the following areas:

- Lift
- Propulsion
- Control
- Power Generation
- Spatial/Temporal Translation
- Signature Reduction (optical, infrared, radiofrequency, acoustic)
- Technology Integration
- Materials
- Configuration, Structure
- Human Interface
- Human Effects
- Armament (RF and DEW)
BAASS Technical Approaches

• Calibrated Data Collection
• World-Class Expert Access & Analysis
• Collaboration - Universities, National Labs
• Investigation / Assessment - Major Aerospace & Electronics Firms
• Cooperation – Intelligence Community
• Technical Peer Review Boards
• BAASS is very receptive to communication and guidance

• BAASS Program Management Plans (PMPs) in the 12 technical areas (deliverables under the Statement of Objectives type of contract) were all very good to excellent

• The production of all technical report deliverables during this initial phase of the program – goal is ~2 reports per area – are to be completed by 31 July 2009
Challenges Overcome

- Difficulties in establishing a research effort from the ground up – staff, management, consultants, clearances, facilities – have been quickly and successfully resolved

(b)(6)
In general, each multiyear Program Management Plan has

- 2 - 4 “feasibility of technical concept” baseline studies suggested
- comparison of the aerospace vehicle concept with observable data
- review of literature for recent concepts proposed by academia and national labs
- analysis of concepts for further focused research
- information exchange with government contractors in the aerospace and electronic sectors
The Immediate Way Ahead

• Begin publishing the 24 technical report deliverables as soon as possible
• Continue to build research database architecture
• Initiate university / national lab research grant solicitation program
• Ensure that the SCI personal security clearances continue to be quickly and successfully processed and that SCIF certification is granted to BAASS
• Begin processing of lower-level clearances through DISCO as part of focused counterintelligence efforts