

Advanced Aerospace Weapon System Applications Contract Status

Contract HHM402-08-C-0072

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

8 May 2009

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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 (b)(3):10 USC 424;(b)(6) on 13

 November 2008



Contract Focus

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 Armament (RF and DEW)

- **Materials**
- Configuration, Structure
- Human Interface
- Human Effects
- Signature Reduction (optical, infrared, radiofrequency, acoustic)
- **Technology Integration**



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



Positives

- 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

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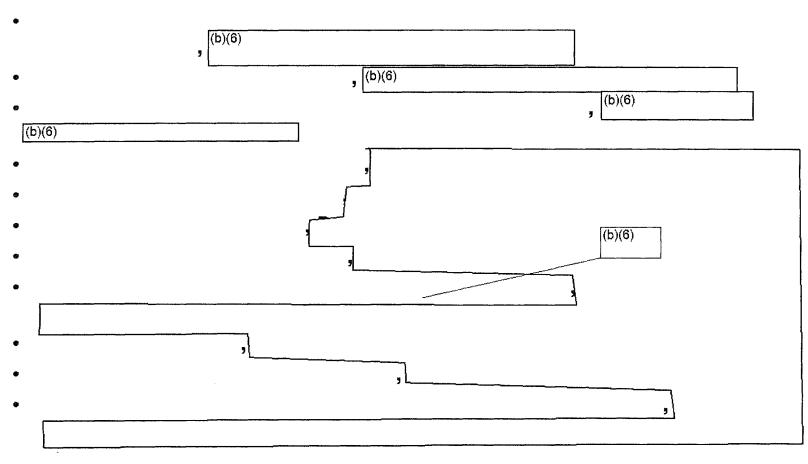


Program Management Plans

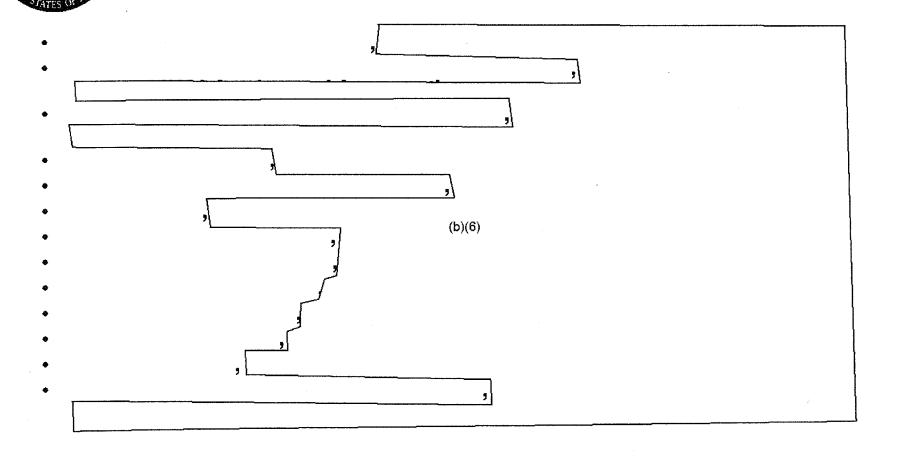
- In general, each multiyear Program Management Plan has
 - 2 4 "feasibility of technical concept" baseline studies suggested
 - comparison of the aerospace vehicle concept with observable data
 - review of literature for recent concepts proposed by academia and national labs
 - analysis of concepts for further focused research
 - information exchange with government contractors in the aerospace and electronic sectors



2009 Technical Reports



2009 Technical Reports (continued)





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