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# 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**

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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**

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# 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**

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# 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
- 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**

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# 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**

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# 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



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# 2009 Technical Reports (continued)

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# 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**