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Advanced Aerospace Weapon System Applications Contract Status

Contract

HHM402-08-C-0072

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16 December 2008

This Briefing is Unclassified

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Contract Focus



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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)
- Materials
- Configuration, Structure
- Human Interface
- Human Effects
- Armament (RF and DEW)

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Recent Events



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- Initial contract status brief was given to [redacted] on 10 November
- Subject was raised by Sen Reid in a meeting with [redacted] on 13 November
- Bigelow Aerospace Advanced Space Studies submitted complete Program Management Plans (PMPs) in the 12 technical areas on 21 November for DIA comment and approval

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On Track, On Schedule, and Within Cost

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- **Technical approaches being implemented by contractor are established, traditional techniques within intended scope of contract**
- **Technical report deliverables will be under subcontract within 2 months and completed within 7 months**
- **Equal amount monthly payments to contractor have commenced and allow for research subcontracts to be put into place quickly**

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BAASS Technical Approaches for FY09

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- **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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Challenges



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- **Difficulties in establishing a research effort from the ground up – staff, management, consultants, clearances, facilities**

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Positives



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- **BAASS very receptive to communication and guidance**
- **BAASS Program Management Plans (PMPs) in the 12 technical areas were all excellent – approval given to proceed**
- **(b)(6) will coordinate the production of all technical report deliverables during this initial phase of the program – goal is ~2 reports per area completed by 31 July – approval needed to proceed**

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Program Management Plans



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- **12 PMPs are very good to excellent**
- **Multiple reports in each technical area within the contracted period**
- **In general, each PMP has**
 - **2 - 4 “feasibility of technical concept” studies suggested**
 - **comparison of the aerospace vehicle concept with observable data**
 - **review literature for recent concepts proposed by academia and national labs**
 - **information exchange with government contractors in the aerospace and electronic sectors**

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The Way Ahead



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- **Review and approval of the specific topics suggested for the ~24 technical reports**
- **Review and approval of the research database architecture**
- **Review and approval of the university / national lab research grant solicitations before release**
- **Ensure that the personal security clearances submitted are quickly and successfully processed and that the collateral site clearance is granted**

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