



Airborne Component Technology Research Area



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Agenda



- Research Area
- FY07 topics
- SITIS
- Kick-Off Meeting
- Other information



Airborne Component Technology



The Airborne Component Technology funds various research efforts of the Airborne Laser (ABL) program. ABL is the air-based component of the BMDS Boost Phase Defense Segments.

- It is a highly modified Boeing 747-400 aircraft that will acquire, track and kill ballistic missiles in their boost phase.
- The program is interested in technology that improves the design, development, integration, test and sustainment of the ABL weapon system.
- And enhance performance capabilities



FY07 Topics



Airborne Component Technology:

- High Pressure Singlet Delta Oxygen Generator
- Advanced Hemispherical Reflectance Measurement of Heated Materials
- Fiber Optic Gyro (FOG) Performance Improvement
- Improved Iodine storage, shipping, handling and operations for COIL Lasers

ABL Weapon System Elements

■ Beam Control/Fire Control System

—Lockheed Martin

- Turret
- Target tracking
- Atmospheric compensation

■ Laser

—Northrop Grumman

- Laser modules
- Beam optics
- Fluid supplies

■ Aircraft 747-400F

—Boeing

- Major structural modifications
- Flight deck modifications

■ Battle Management

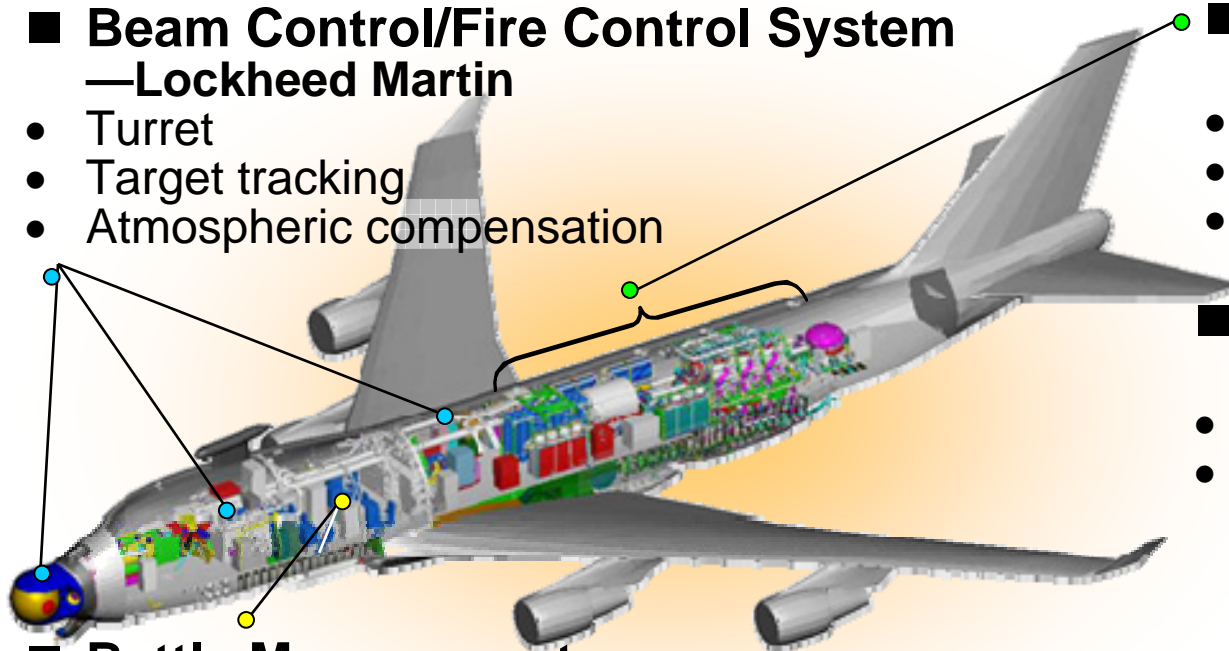
—Boeing

- Engagement sequence mgmt
- Mission consoles / flight displays
- Surveillance/ranger
- Communications

■ Air Vehicle Integration & Test

—Boeing

- Ground infrastructure
- Test plan/conduct





SITIS



SBIR/STTR Interactive Topic Information System (SITIS)

Two phases

➤ **Pre-release**

- Direct communication with topic writer (Jul 19 – Aug 18)
- www.dodsbir.net/solicitation
- Find topic writer's name and telephone numbers

➤ **Solicitation**

- No longer allowed to talk directly to the topic writer (Aug 19)
- www.dodsbir.net/solicitation
- Questions are anonymous; all Q&A are posted for general viewing with topic descriptions
- Questions are emailed from SITIS to the topic author for response
- Topic writers can post additional references/material to SITIS
- SITIS stops accepting questions 2 weeks prior to closing date



Kick-Off Meeting



- After SBIR/STTR award
- Fill out OPSEC Review Worksheet
- Discuss technical parameters
- Determine if need to go classified
- Don't contract out more than 50% of work





Miscellaneous



- Broad vs. narrow topics
- Time delay between select letter notification and contract award (months)
- Entire process - from Topics Call to the end of a Phase II award can take 4-6 years
- End Phase II approaching TRL 5 and 6 applying for Transition
- Goal is commercialization





Questions

