



# News Release

## Defense Advanced Research Projects Agency

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IMMEDIATE RELEASE

June 9, 2005

### **TANGO BRAVO PHASE I CONTRACTS AWARDED**

The Defense Advanced Research Projects Agency (DARPA) and the U.S. Navy today announced the five technology demonstrations that will be conducted under the Tango Bravo program.

The five efforts are aimed at removing technology barriers for reducing size and cost of future submarines by addressing key technical issues and demonstrating concept feasibility for shaftless propulsion, external weapons stowage and launch, and reduced ship hull/mechanical and electrical infrastructure. The program focuses on technology demonstrations and does not include submarine design development. The program is structured with multiple phases. Technologies that successfully advance through all phases will be available for follow-on development or design efforts in 2009.

Two contractors will develop and demonstrate shaftless propulsion for a submarine concept that provides for reduced arrangement complexity and which will likely result in reduced cost. Each award is for a 12-month first phase.

- General Dynamics, Electric Boat Division, Groton, Conn., \$6,292,997, May 26, 2005 (N66604-05-C-3180).
- DRS, Parsippany N.J., \$4,993,708, May 25, 2005 (N66604-05-C-3313).

Two contractors will develop and demonstrate an external weapon launch system that can stow, communicate with and deliver an unencapsulated MK-48 Advanced Capability torpedo from outside the pressure hull. Funding is for the 18-month first phase.

- General Dynamics, Electric Boat Division, Groton, Conn., \$9,540,087, May 26, 2005 (N66604-05-C-3181).
- Northrop Grumman Newport News, Newport News, Va., \$10,406,518, June 6, 2005 (N66604-05-C-3314).

General Dynamics, Electric Boat Division, Groton, Conn., received a Phase I award of \$4,656,645 on May 24, 2005 (N66604-05-C-3182) to develop and demonstrate a reduced ship infrastructure concept that uses electric actuation instead of hydraulic and mechanical actuation of ship control surfaces, including the ship's rudder and stern and bow planes. The first phase of activity will last 18 months.

(more)

The Tango Bravo program is managed by DARPA, with the Navy providing the Deputy Program Manager.

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