

AMENDMENT NUMBER 0005  
TO ONR BAA 07-025 ENTITLED  
"PAYLOAD IMPLOSION AND PLATFORM DAMAGE PREDICTION AND  
VALIDATION"

The purpose of Amendment 0005 is to notify interested parties that a test plan is available for the development of proposals for at-sea testing (Task A) and fabrication of at-sea test articles (Task B). Additionally, a series of pressure tank implosion tests has been developed, and bids for this new task (Task F) are requested.

- Proposals for Tasks A, Task B, and Task F are due on July 21, 2008.
- Notification of proposal selection will be made on July 28, 2008.

### **Task A – Deep Water Implosion/UNDEX Experiments**

A series of eleven (11) at-sea tests has been developed. Each test includes an underwater explosive (UNDEX) which initiates implosion of an implodable structure. Seven of the tests include an option, in which a second structure, provided as Government Furnished Equipment (GFE), will be included in the test. Distribution of the at-sea test plan is restricted. Please see the eligibility requirements and contact information below to request the at-sea test plan.

ONR requests that proposals include a separate cost for each of the eleven tests, and each of the test options. After reviewing the proposals, ONR will award a contract to perform approximately five to eight of the tests.

### **Task B – Fabrication of Implodable Volumes and Adjacent Structures**

The performer shall fabricate the implodable volumes and the adjacent structures according to manufacturing drawings provided by the Task A performer. Fabrication of the seven optional structures is not included in this request for proposals; they will be provided as Government Furnished Equipment (GFE). The cost to fabricate each implodable volume and adjacent structure shall be listed separately in Task B proposals. As stated above, distribution of the at-sea test plan is restricted. Please see the eligibility requirements and contact information to request the at-sea test plan.

The manufacturing drawings provided by the Task A performer may have minor differences from the information provided. Further, pre-test computational analysis for the selected tests may require that minor changes be made to the design of the implodable or the adjacent structure. All implodable structures shall be machined model (no welding). The larger, adjacent structures shall be of welded construction.

The performer shall conduct detailed mapping of thickness and out-of-roundness prior to delivery of each implodable volume. Additionally, the performer shall supply material

samples of the actual material used in each implodable volume to the government for the purpose of material characterization. The performer is responsible for shipping the implodable volumes and adjacent structures to a single location specified by the Task A performer (within the continental United States).

## **Task F - Supplemental Pressure Tank Tests**

Proposals are requested for a series of implosion experiments to be conducted in a pressure tank. The test facility must be capable of supporting hydrostatic pressure and small UNDEX charges. The proposal shall address the capability of the test facility in terms of maximum hydrostatic pressure, maximum allowable charge size, maximum implodable volume size, and internal dimensions. The proposer shall also consider the duration of data that can be collected prior to reflections from the interior wall of the pressure tank. The cost to conduct each subset of supplemental pressure tank tests shall be listed separately. Distribution of the supplemental pressure tank test plan is restricted. Please see the eligibility requirements and contact information to request the subject test plan.

## **Eligibility**

Only U.S.-owned firms with Defense Security Services (DSS) “Secret” level facility and personnel clearance in the U.S. are eligible to receive awards under this BAA. Navy laboratories and warfare centers as well as other Department of Defense and civilian agency laboratories are not eligible to receive awards under this BAA and should not directly submit either white papers or full proposals in response to this BAA. However, if any such organization is interested in one or more of the programs described herein, the organization should contact the appropriate ONR POC to discuss its area of interest. These types of federal organizations may also team with other responsible sources from academia and industry that are submitting proposals under this BAA.

If proposing the use of any subcontractors, such as an entity that has access to major manufacturing facilities, the prime contractor must clearly delineate if the subcontractor will be working with classified or unclassified information, whether or not the entity is U.S.-owned, if the firm has a DSS “Secret” level facility clearance in the U.S. and if the firm has a DSS “Secret” personnel clearances in the U.S.

If a proposed subcontractor working with classified information does not have a DSS “Secret” level facility, the subcontractor must be U.S.-owned as well as have at least DSS “Secret” level personnel clearance in the U.S. in addition to a formal arrangement with the prime contractor for all work to be completed and stored in the prime contractor’s DSS “Secret” level facility. Any situation described above must be solidified in a written agreement and that agreement should be available for Government review.

It is the prime contractor’s responsibility to ensure proper protection and disbursement of classified information.

Only U.S. persons are permitted to work on this effort due to export control restrictions. The term “U.S. persons” is defined in the International Traffic in Arms Regulations (ITAR)-22 CFR § 1201.1 et seq.

Teaming is encouraged; however, offerors must be willing to cooperate and exchange software, data and other information in an integrated program with all team members as well as with the Government.

Teaming with academia is permitted. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) may join others in submitting proposals; however, no portion of this BAA will be set aside for HBCU and MI participation.

## Contact Information

Requests for technical information and the test plans referenced above shall be directed to the points of contact listed below. Hard copies of full proposals for Contracts and Grants shall be sent to the Office of Naval Research at the following address:

Point of Contact Name:	Luise S. Couchman
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Division Title:	Ship Systems and Engineering Research Division
Division Code:	331
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Point of Contact Name:	Stephen E. Turner
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