

**AMENDMENT 0009 FOR
BAA 09-011
ELECTRICALLY ACTUATED SUBMARINE CONTROL SURFACES**

1. Question: We intend to subcontract to a foreign company, who has a foreign Government facility clearance, as such they will need access to U.S. classified data.

Require clarification that we can in fact subcontract with them for this work, provided we get a Technical data license or Technical Assistance Agreement through Department of State. Since they are a U.S. owed facility have a foreign facility clearance and the U.S. and this foreign country have a Bilateral Security Agreement, I do not believe a SSA is required, do you agree?

Also if you can provide a list of Technical Data (including Security level) that the Government will be providing so can start the export approval process.

Answer: In accordance with Paragraph III, 'Eligibility Information' located on Page 15:

"Any subcontractor working with classified information must meet the following criteria:

1. U.S.-owned firms with DSS "Secret" level personnel clearances.
2. Foreign-owned firms with SSAs granted by DSS including DSS "Secret" level personnel clearances.

It is preferred that any subcontractor working with classified information have a DSS "Secret" level facility in which to conduct its work. If a proposed subcontractor working with classified information does not have a DSS "Secret" level facility, then the subcontractor must have 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 shall be available for Government review.

If proposing the use of any subcontractors, the prime contractor must clearly delineate the following information within its proposal:

1. Whether the subcontractor will be working with classified or unclassified information;
2. Whether or not the entity is U.S.-owned;
3. Whether the firm has a DSS "Secret" level facility clearance in the U.S.;
and
4. Whether the firm has DSS "Secret" personnel clearances in the U.S. For all personnel it proposes to use under this program.

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 on the technologies involved in this BAA. The term "U.S. persons" is defined in the International Traffic in Arms Regulations (ITAR) - 22 CFR § 120.1 et seq.

All responsible sources from academia and industry may submit proposals under this BAA so long as the above security requirements are met. Teams are encouraged to submit proposals in the areas outlined under this BAA."

2. Question: We would like a 30 day extension to the BAA due date to allow us to work out some of the details and obtain input from the foreign company.

Answer: The request for the 30 day extension to the BAA is denied.

3. Question: Per the BAA on page 18 it says 'Copies – one original, two (2) hard copies, and one(1) electronic copy on a DVD (in Microsoft Word or Excel 97 compatible of .PDF format)' It says DVD but is a CD acceptable?

Answer: Yes, a CD is acceptable.

4. Question: Is there a threshold for subcontractors to provide full proposals to the primes?

Answer: No, there is not a threshold for subcontractors to provide full proposals to the primes.

5. Question: In reviewing the FNC/BAA, I note some difficulty responding to some of the numbers in the specifications for the actuation for the water vanes.

These numbers make rotary actuation completely feasible to scale anywhere from 50K up to 500K ft. lb. A torque demand of 1,000K ft. lb. does not appear to be compatible with this previous documentation. Could this be clarified so that realistic responses to the BAA can be offered?

Also, given the possible torque of 1,000K ft. lb., is it really necessary to have a +/- 60 degree rotation? For example, this torque at +/- 30 degree makes possible some very interesting solutions. The combination of 1,000 ft. lb. and +/- 60 degrees dramatically reduces the solution set. Can this be clarified?

Answer: Our Key Performance Parameters are tailored for maximum flexibility to the naval architect. All systems do not require the same design solution, although scaling a design is an elegant method. ONR is looking for technology that can be used to address the range of performance covered by the Key Performance Parameters and not a specific

point design. 1000K Ft-lbs of torque does require a +/- 60 degree rotation. The threshold/objective language in the Key Performance parameters is used to indicate a distinction between what is required (threshold) and what is desired if feasible (objective).

6. Question: Are two complete and separate systems needed for redundancy?

Answer: The BAA does not require two complete and separate systems. Innovative approaches for mitigating single point failures, while meeting actuator system torque densities, are being sought.

7. Question: Does the torque density requirement refer to the primary or primary and secondary rams?

Answer: The torque density requirement applies to the total prime mover and motion conversion components of the proposed actuator system.