

Amendment 0002
Solicitation Number: ONRBAA 13-009
"Hybrid Energy Storage Module" (HESM)
Date: 28 February 2013

The purpose of Amendment 0002 is to amend the BAA with responses to questions submitted prior to 28 February 2013. Questions received after that date and before the deadline for submissions of questions will be addressed in a subsequent amendment.

BAA 13-009 is hereby amended as follows:

Question 1: Is the use of Government Furnished Equipment (GFE) permissible?

Answer 1: GFE may be proposed. Please reference the GFE, government facility, and any agreements or restrictions for use with the government facility for using the GFE in your white paper/proposal. Also, please provide any alternative path for completion if GFE was to become not available for use in this effort.

Question 2: In Area #2, is Phase I meant to culminate in a Preliminary Design Review (PDR) for the full scale Phase II System?

Answer 2: Yes. Proposals shall describe a complete system concept, provide a detailed scope of work for the development of the core technologies and conduct integrated bench-top system testing to achieve a Technology Readiness Level (TRL) of no less than 4 (Phase I), with a target of TRL 5 at the end of the Phase II demonstration. Phase I intends to develop the proof of concept hybrid storage approach and after operation and evaluation during the phase, provide a detailed design. The detailed design will be reviewed during the program review at the end of the Phase I period, and thus it would be considered a Preliminary Design Review (PDR). A Critical Design Review (CDR) is expected to be conducted during the course of the Phase II effort which will ultimately culminate in the system construction and demonstration.

Question 3: In Area 2 Phase I deliverables, it asks for 3D models of the full scale energy storage model and detailed design of scaled up prototype system. The full scale system is part of Phase II and Detailed Design and 3D models are asked for again there. Is the Phase I effort meant to read sub-scale?

Answer 3: During Phase I, the 3D model generated will be for the full scale system being designed. As it is anticipated that modifications and adjustments will occur to the system design during the execution of the program, there is a specified deliverable under Phase I and Phase II for the models. The Phase II model should incorporate the latest updated design information for the "full scale" demonstration system being developed through the course of both Phases of the program.

Question 4: We have a comprehensive Small Business Subcontracting Plan which is updated annually. Is this sufficient, or is a Subcontracting Plan specifically required/tailored to the effort being proposed under this BAA?

Answer 4: An active comprehensive Small Business Subcontracting Plan approved by the cognizant DCMA office is sufficient.

Question 5: MIL-STD-461 (RE101, RE102, RS101, RS103) is called out in the Appendix but not anywhere else. How is MIL-STD-461 meant to be applied and which version?

Answer 5: The system will be designed and demonstrated to TRL5. The basis and methodology to account for EMI should be incorporated into the system design. However, it will not be required to be demonstrated.

Question 6: Can technical discriminators/outputs of Area #3 work be applied to Area #2 or Area #1?

Answer 6: Technical elements proposed and/or funded under Area #3 can be applied to Areas 1 and 2, however there should be no dependency of selection, funding or progression in either program to the other.

Question 7: In Area #2, what is the ship for the Phase I Deliverable "Energy System layout drawings of critical components, interfaces and subsystems integrated into the hull; this would be 2-D Level I drawings at a minimum. Use both .dxf and .pdf formats"?

Answer 7: Under this effort, the system will be operated to show capability and proof of concept utilizing generic rate conditions. There is no specific hull or predetermined grid application defined at this time. However, system designs should show potential for power density and optimization of all components, interfaces and subsystem (balance of plant) configuration and installation.