AMENDMENT NUMBER 0002
BAA 11-002 ENTITLED
"RENEWABLE SUSTAINABLE EXPEDITONARY POWER"

The purpose of Amendment 0002 is to provide answers to following questions:

Question 1: To better understand the requirements, and our ability to meet those requirements, we need a power versus time profile to drive our system design analysis. The time resolution should be on the order of 5 minutes or 0.1 hours.

Answer 1: As noted in BAA Section 6.3, mission duration is 15 days at continuous 3k power output.

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Question 2: Can you please tell me if there are vendor currently working on this requirement or is this new?

Answer 2: ONR BAA 11-002 is a new solicitation for a FY12-start Future Naval Capability (FNC) project. There is no on-going funded work on this FNC.

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Question 3: What is the approximate anticipated number of units that would be needed by the Navy, given that a system with appropriate performance could be produced at an acceptable cost? That obviously would affect the anticipated cost per unit of setting up production of those parts of the system not also used commercially.

Answer 3: Since the Renewable Sustainable Expeditionary Power (RSEP) initiative is a Science & Technology effort, the Navy is not prepared to specify procurement quantities at this stage. Procurement quantities will depend on a number of factors including affordability, performance, & deployability, and likely will not be determined until after TRL 6 is achieved at the end of this 5-yr FNC project.

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Question 4: In general, are the white paper and the proposal, if invited, required to address the manufacture of the complete RSEP system, or would a proposal for a major component, such as low-cost high efficiency solar modules be considered responsive to the solicitation?

Answer 4: White papers and full proposals must address an overall concept. Offerors must have the capability to deliver a full-scale RSEP system prototype in phase 2 as required by the BAA.

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Question 5: In general, there must be a compromise between some performance factors and cost. Can you give any guidelines as to what cost range in dollars per peak watt you would consider

Answer 5: Your assertion is correct - there will be compromises between performance and cost as the project progresses. To aid the government in conducting these assessments, phases 1 & 2 require conduct of affordability analyses in addition to modeling & simulation. A future production cost target of 7.3 $/W (not including trailer) is reasonable given an ability to comply with other key performance requirements, and an ability to dramatically reduce operational fuel usage for the system.

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Question 6: Would it be acceptable to propose two possible versions of the system using the same solar cells?

Answer 6: It is acceptable to submit multiple proposals in response to this BAA.

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Question 7: Section 6.3, page 5. "Liquid Fuels - DL-1, DL-2, JP-5, JP-8, BioFuel Blend." I am interpreting that the RSEP system should be able to burn any one or combination of the above fuels. In other words, the RSEP system shall not be restricted to one particular fuel among the above listed. Am I correct on this?

Answer 7: If the proposed technology involves the use of a liquid fuel, operability on JP-8 is required. Operability on the other fuels listed in 6.3 is a desired capability.

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Question 8: Section 6.3, page 5. "Onboard Fuel - The LTT-transportable RSEP unit shall support a 15-day mission, during which a combination of renewable energy, stored energy, and fuel may be utilized to provide a continuous output of 3 kW without fuel re-supply". Does "one-day mission" mean 24 hours operation? Or fewer hours such as 16 hours?

Answer 8: The 15-day mission involves continuous, 24-hr per day operation at a constant output of 3 kW.

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Question 9: When the weather is bad for 15 days, solar power cannot be utilized during the mission. In such a case we must depend solely on the stored energy and fuel. Are we to assume the worst case scenario to set the performance criteria, or we are allowed to estimate a likely scenario based on the local statistics?

Answer 9: Statistical data may be used in analysis, modeling and simulation.

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Question 10: Should all questions that we intend to ask be submitted now for the Webinar scheduled for Jan 5, given the statement in the BAA: "Questions submitted within 2 weeks prior to a deadline may not be answered, and the due date for submission of the white paper and/or full proposal will not be extended. All communication shall be submitted via email." Or is the statement just to provide fair notice that questions asked after today (two weeks prior to submission of white paper) or after the Webinar may not be answered before the due date?

Answer 10: Questions may be submitted at any time, but those received after 4pm EST on January 14, 2011 (2 weeks prior to white paper due date) may not be answered. Questions may be submitted via email directly or electronically via the webinar.

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