



66 -- High Frequency ACOMMS Source Receiver Array System

- [Combine Synopsis/Solicitation](#) - Posted on Feb 06, 2007
- [Amendment to Combined Synopsis/Solicitation 01](#) - Posted on Feb 21, 2007

General Information

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Contracting Office Address

Department of the Navy, Office of Naval Research, Naval Research Laboratory/STENNIS, John C. Stennis Space Center, Stennis Space Center, MS, 39529-5004, UNITED STATES

Description

- 1) Question: Can an extension be granted?
ANSWER: The response date is hereby extended to March 23, 2007.

2) Question: Can the government provide a schematic for the T-R switch at this time?

ANSWER: No.

3) Question: The 240ks/sec sample rate is excessive for the 60kHz BW. Is this for future use?

ANSWER: The governments objective is to oversample the complex frequency- and phase-modulated signals by at least 4x.

4) Question: Can the pre-amps and T-R switches be located more than 0.5 meters away if all specifications are met?

ANSWER: No, Reference specifications paragraph 2.1.

5) Question: What acoustic calibrations are required? TVR and receive sensitivity vs frequency? Beampatterns? Are they required to be performed at a US Navy calibration facility?

ANSWER: Reference specs section 4.1(f), TVR curves shall be traceable to a U.S. Government reference standard.

6) Question: Will the maximum transmit record length always be less than or equal to 30 seconds?

ANSWER: Reference specs Section 2.1 3rd paragraph.

7) Question: Please confirm that the system must allow each channel to transmit a different (or phase shifted) waveform.

ANSWER: Reference Specs Section 2.4.1(a).

8) Question: Are post amp gain changes required on a channel-by-channel basis, globally, or both?

ANSWER: Both, Reference Specs Section 2.4.2(b).

9) Question: Specification paragraph 4.1.c, is titled Receive Channel-to-Channel Uniformity, but the description of the test appears to be a passband flatness requirement. Please clarify.

ANSWER: The receive flatness requirements are specified in para 2.1. Within this requirement, the channel-to-channel uniformity requirement in para 4.1 must be met.

10) Question: Same question with regards to paragraph 4.1.f.

ANSWER: Reference answer for question 8.

11) Question : Please confirm that the Test plan (Spec para 6.0) is not required as part of the proposal.

ANSWER: Reference Section 6.0 (c). It would be anticipated that an offeror would address this requirement in their proposal.

12) Question: Para 2.8 requires a buoy power source sufficient for 36 hours of operation. Para 6.0b expands on this, stating that 40 % of the time (14.4 hrs) the system must output 160 watts acoustic. However, Para 6.0b does not state what power level the system is in for the other 60% (21.6hrs) of the test. (Par 2.3 gives two non-transmitting power levels: 120 w (PAs on but not transmitting) and 50 watt (ASRA PC ON, PA's OFF). Please clarify.

ANSWER: The requirement is for a continuous transmit sequence under the conditions specified, alternating between transmitting for 30 seconds and not transmitting for 45 seconds. The governments RMS power estimate is based on 160 W acoustic when transmitting. The max battery power is calculated on 85% power conversion and 50% transducer conversion, thus 380 watts. Add the 120 W non-transmit load for a max RMS power estimate of 500 W. The

government desires that the design will be efficient enough that total active power will not exceed 500 W. 60% active plus 40% inactive results in an estimated energy budget of 10 kW-Hr for a 36-hour mission.

13) Question: Para 7.1 indicates this option includes an Electronics Module as well as ASRA array components, yet the referenced section (Para 2.2) does not mention an EM, only the transducer assemblies. Please clarify what is required under this option.

ANSWER: ASRA array components include all array-mounted devices and the matching networks. It allows for mounting some of the components (such as the networks) in the Electronics Module.

14) Question: Para 2.2 requires that the transducer attachment points be moveable up or down 0.5m, which seems to conflict with the array element spacing, which, at 5m aperture could result in one transducer overlapping the adjacent one. Is this an error? Please clarify.

ANSWER: The specification is correct. Overlap is desired.

15) Question: What are the deliverables for CLIN002?

ANSWER: CLIN 0002 is reference to data deliverables, Reference Specs section 5.0.

16) Question: The terms Array components (Para 7.4) and Array (Para 7.1) can have slightly different meanings depending on the proposed architecture. When pricing the CLINs, is it correct to assume that the former refers to only the detachable components comprising the array aperture, while the latter refers to the those components PLUS the 100 meter cable?

ANSWER: Para 7.4 includes the hardware specified in Para 7.1 plus the 100-m cable.

17) Question: Can proposals be emailed?

ANSWER: No.

Point of Contact

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