

Questions and Answers for NBCH3090001-R-0006 Amendment 0003

1. Can you please clarify how much definition is required in regards to proposing subsequent phases? It is clear that Phase I to deliver initial breadboard hardware needs to be well-defined from the standpoint of budget and SOW. And it is clear that subsequent phases will be considered. However, it is not clear to me how much definition in terms of budget and SOW for subsequent phases are required for this initial proposal. Will these details be proposed subsequent to the period of performance in Phase I, or must they be defined up-front in the current proposal?

A. All gated phases must be defined up front in the current proposal. However, phase I details should be explicit where Phase II & III details can be more conceptual. (See 4.2.3.3) "Path to phase I solution is explicitly detailed. Paths to Phase II & III solutions are conceptually detailed." It is suggested that the proposed budget and SOW for Phase II & III include sufficient detail to communicate your plan. It is also understood that lessons learned from Phase I may change the proposed path.

2. Can we obtain key interface data for the following:

Q. The dimensions of MEM's S&A.

A. The gross dimensions are 13.22mm x 7.44mm x 6.43mm

Q. The dimensions of MEM's setback generator.

A. The ARDEC setback generator will not be available for integration at this time because it has not been validated in a 40mm low velocity environment. All power generation for the fuze shall be the responsibility of the proposer and not rely on government IP.

Q. The weight of the two items mentioned above.

MEMS S&A: 29.7g - setback generator: See answer #2

Q. MEM's setback generator output characteristics.

A. See answer #2

Q. MEM's S&A Explosive Train Output characteristics.

A. Equivalent to an M100 Detonator

Q. G-switch envelope.

A. Outer dimensions are 2.1mm x 2.1mm x 1.1mm

Q. G-switch sensitivity.

A. 500g

Q. Any other related interface data without providing detail design.

A. None at this time

3. In Page 14 it is mentioned that "The proposal shall address the deliverables that are required to meet the program objectives for the first twelve months. The proposal shall provide for the options to continue efforts for the remainder of the fiscal year as well as follow-on years indicating the critical technology demonstrations, analysis and sub-system level trades culminating in a demonstration at TRL 6". Presumably, follow-on years refers to Phase II and Phase III efforts. Could you provide some clarification about the level of detail in the technical Part of the proposal associated with the Phase II and Phase III efforts?

A. The technical proposal will need to include sufficient detail to assess the project as a whole. We understand that some aspects associated with follow-on phases (Phase II and III) may not be available until conclusion or near conclusion of Phase I. However, we will expect adequate detail to ascertain the technical quality of the proposal as a whole.