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17 July 1967

MEMORANDUM FOR : Chief, Bio Sciences Division, ORD/DD/S&T

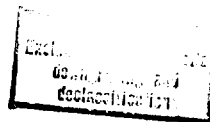
SUBJECT : TSD Comments on Terms of Reference,
Bureau of the Budget Studies, Animal
Emplacement

In response to your request for our comments on your detailed list of topics and questions, I have put together the following running commentary keyed to your organizational questions list.

1. Objectives

- c. Since there are no explicit operational requirements for your RD&E effort in the animal emplacement field, the question should probably be more properly answered regarding the implicit requirements. Our memo of 15 May on the project KECHEL should provide you with sufficient information.
 - d. Since the requirements relate to a research program rather than an operational requirement, we feel that this requirement best surfaces as ORD originated and validated by TSD as being of general background interest.
- In the areas of OXYGAS and AXIOLITE, the requirements from SOD and FID have been more specifically stated. However, it is our impression that neither of these are programmed against specific requirements but rather against general operational interest.
- e. Since we are well aware of the research nature of the programs underway, we have not defined specific milestones and rates. In general our impressions of progress are favorable for projects of this type.

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f. Since we keep on referring to generic requirements, there are no specific targets and hence no priorities associated with them. We regard the emplacement techniques in terms of esoteric tools of the trade rather than exact price of a specific operations hardware. Since we would envision these tools being used for audio counter-measures technical intelligence collection or clandestine communications aids, the priority of the target would be associated with a specific operational application sometime in the future.

g. We certainly feel that the requirements for unusual emplacement techniques will continue far enough into the future that successful completion of ongoing or proposed animal emplacement projects within the next few years would meet realistic operational time requirements.

2. Program description and schedule

e. In order to be consistent with the above, we should again refer to the generic nature of the requirement rather than a specific operation. Therefore for this research project, a specific operational date is meaningless.

h. Since none of three projects under consideration are currently programmed in the TSD budget cycle for 68 and 69 and it is our impression that the ORD programs will continue during most of that period, it is presently impossible to allocate future costs in TSD. At such time as operational pertinence and specific operational utility are demonstrated, TSD will have to either reprogram or seek supplemental funds.

i. I would like to suggest that the projects concerned be defined as vehicles and placement techniques rather than in terms of the equipment carried or the operational mission

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concerned. In this way audio devices
 do not get defined as subsystems but rather as making hardware. That hardware obviously has other use both in R&D and operations. Similarly, support systems like power supplies and remote recharging will have special applicability.

k. It is our conclusion that the projects in question are still in too early a portion of their feasibility demonstration phase to talk of specific phase integration at this time.

l. Since in i above we chose to define the system as a vehicle rather than a collection device, the countermeasures should relate specifically to the vehicles themselves rather than the equipment to be carried. I think that you can relate to these quite directly.

3. Alternatives

a. Again it does not seem proper to define the animal emplacement systems as "collection means." Instead they should probably be regarded as alternative methods of intra concealment or emplacement. As such, they have obvious advantages of being ambulatory, potentially indigenous, and basically unwitting. Alternatives are the more classic forced intra operation remote sensors or human asset recruitment.

b. It is not a problem of generic rejection but rather of broadening the scope of alternative techniques available to a specific operational opportunity.

d. If the question is meant to apply in a research sense, ORD should answer. If it is meant in an operational sense, it is premature to apply it in any specific case.

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e. Since the projects are still primarily in feasibility demonstration stages, any extensions of time or funding stretchouts will only result in delay of determination of operational practicality and applicability. It is difficult to make predictions beyond that point.

4. Operational planning

a. All of the potential users have had periodic briefings on project status; but since adequate operational feasibility has yet to be demonstrated, no specific operational planning has yet been accomplished.

b. The entire question appears to be premature.

c. Ditto.

d. There are obvious geographic limitations to the applicability to any specific placement vehicle. These could be tested in terms of the animals' indigenous character, survivability in the environment or operational range.

e. There must be a myriad of them; but since we are not talking about specifics, there is no point in discussing it.

f. Same as e.

g. Since we are restricting this to the emplacement device technique itself, the question appears to be irrelevant. We do, however, envision audio and technical collection use as well [redacted]
[redacted]

h. Since this is totally dependent upon the payload, it is difficult to assume at this time. However, in terms of generally regarded processing requirements, they would probably be very limited.

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i. Ditto.

j. Since we do not know when or if the systems will become operational, it is extremely difficult to define what specific collection programs will be in existence and therefore could be replaced. In addition, the emphasis in striving for animal emplacement will be to extend currently frustrated operational capabilities rather than replace existing systems.

5. Coordination

a. ORD has conducted a series of meetings and demonstrations to which both TSD and the potential operators have been invited. Coordination has taken place through project meetings and on occasion specific memoranda.

b. TSD/D&E has participated directly with ORD in the technical evaluation of the various projects and has exchanged pertinent technical data.

c. None.

d. It appears that the question is directed toward the organizational mechanism of TSD acting as the developmental operational interface for ORD.

6. Program evaluation

a. The method seems to be best characterized by direct technical observation and criticism. In addition, the Technical Requirements Board and potential operational users have been briefed and poled regarding feasibility and operational utility.

b. Unless someone indicates a desire for change, we would propose continuation of the present method.

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I hope all these words do you some good.



Richard A. Krueger ✓
C/TSD/D&E

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