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## MEMORANDUM FOR:

SUBJECT : Additional Guidance -

REFERENCE S :

1. Since the exchange of memoranda referenced above (information copies attached), further talks between [redacted] personnel have indicated that some additional guidance [redacted] is germane and necessary. This is particularly warranted in light of the views that insufficient justification for continuance of any effort exists under present circumstances.

2. Although [redacted] reply to the use of [redacted] platforms was intended to relate only to further R&D aimed specifically at producing more sophisticated systems, it was not intended to convey that no continuing work of any sort should be undertaken. On the contrary, we feel that, ultimately, some aspects and configurations of the project will probably be [redacted] applied. Achievement of this goal requires, in our view, a period of time during which we can expose [redacted] personnel to the platforms under simulated [redacted] conditions. This would permit familiarization first-hand with the capabilities of the platforms and [redacted] hardware, and it would allow more thorough exploration of [redacted] potentials. To these ends we would recommend that [redacted] sustain basic capabilities through maintenance of the current status of the platforms already [redacted]. Such program of maintenance would not only permit the above ends to be achieved, but would also permit exploration of other aspects as detailed below.

3. The utilization of [redacted] as short-range [redacted] platforms seems a distinct possibility as contrasted with their utilization as [redacted] systems. Further exploration of this [redacted] potential is desired [redacted] and would be permitted under the maintenance arrangement proposed above.

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4. In anticipation of some future utilization of the platforms, it is desirable that data be accumulated from existing instrumented animals relative to "shelf-life". Typical data required includes:

a. Time intervals between battery recharges under on-the-shelf storage conditions.

b.

c. Operating times to discharge power packs to various degrees.

d. Long-term observations on [redacted] failure due to electronic component and packaging leakage.

e. Long-term observations on general health, behavior and viability of [redacted]

5. In our view, to achieve goals detailed in 2, 3 and 4 above, a time period of not less than twelve months nor probably more than eighteen months will be required.

6. In addition to the above, and as noted in our referenced memoranda, it is our view that certain other efforts of a more R&D nature and consistent with the [redacted] mission would contribute to generally required knowledge and capabilities. These include, but are not necessarily limited to, those listed below for your consideration:

a. Further studies in animal training. This effort could well include not only background studies, but simulated training based on "scenarios" worked out in cooperation with various potentially interested [redacted] components.

b. Exploration of harness or leash-borne rather than [redacted] electronic packages for animals of opportunity.

c. Exploration of [redacted] methods to permit [redacted]

d. Investigation of the phenomenon of whole animal body [redacted] Such data could well supply answers or new insight to certain chronic problems in [redacted]

e. Further investigate animal guidance and control technology developments based on positive reinforcement.

f. Generalized (i.e., not limited to [redacted] studies) [redacted] technology.

g. Investigations into the nature and mechanisms [redacted] from the sensory standpoint which could shed understanding on a number of chronic and recurrent, [redacted] problems.

h. Further investigation of the [redacted] to determine if the [redacted] capabilities of one [redacted] could be modeled to advantage for improving [redacted] capabilities and as one approach to the [redacted] problem.

i. Preliminary investigations of new and innovative animal guidance and control techniques.

7. The above referenced memorandum, [redacted] requested approval for release of the [redacted] technology to [redacted] in case foregoing, particularly paragraphs 2, 3, 4 and 5, it is requested that the detailed technology be withheld from [redacted] and maintained under strict Agency need-to-know until the determinations alluded to in the referenced paragraphs have been made. As indicated above, we feel that the time period involved should be twelve to eighteen months.