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QUARTERLY TECHNICAL PROGRESS REPORT

1 May - 31 July 1971

Technical work during this period was directed primarily towards collection, cataloging, review and appraisal of documents related to all aspects of personnel incapacitation. More than 160 documents have been so processed and many others have been screened. While there are dozens of good libraries throughout the country which have not been visited, the diminishing returns from our literature search suggest that we are in touch with the largest bulk of thought on this subject. Further intensive literature review would appear to add little, other than detail, to the information already at hand.

A great effort has also been made to conceive of "new" approaches to the problem of non-lethal behavioral control. Discussions between project members and unclassified exchanges with others have been initiated. Very little thought which could be described as "new" has resulted from this. So far, only two possible techniques, not reported in the available literature, would appear to warrant further consideration.

1)

2)

A further review will be carried out to determine whether either or both of the above techniques are actually feasible.

A course of action has been formulated for presentation to the project monitor in August. Briefly, the remaining contract effort will be directed as follows:

1. Literature review: A continued effort will be made to acquire and review new documents and other material related to personnel incapacitation. It is expected that no more than 10% of the remaining effort will be spent in this activity.

2. Evaluation of "new" methods of personnel behavioral control: An effort will be made to determine the feasibility of using agents such as _____ for incapacitation of humans. This research would be preliminary, being limited to theoretical considerations. No "bench" testing or animal testing is envisaged at this time. If possible, other new concepts will also be generated and examined. Approximately 30% of the remaining effort will be spent on "new" techniques.

3. A state-of-the-art review will be prepared using a system approach to the incapacitation problem. Each group or family of techniques will be considered separately. Some of the major categories are as follows:

Missiles, ballistics/impact
Light, electromagnetic radiation
Sound
Electric currents
Drugs, chemicals
Physical restraint

Psychology, verbal persuasion
 Miscellaneous (odor, slippery foam, etc)

Various aspects of each group of techniques will be reviewed, for example:

Physical aspects of the agent

Delivery system

Physiological, biochemical or psychological mechanisms;
 medical considerations

Results or effects, type and degree of performance decrement

Operational factors (portability, reliability, etc)

Possible applications and limitations

Recommendations

Descriptions of any new techniques which appear feasible will be included in the report.

Administrative Aspects

1. [redacted] an analyst who has done much of the literature re-
 search on this project will be terminating [redacted] employment as of 1 October 1971.
 [redacted] a physicist and research analyst, will continue [redacted]
 [redacted] work. [redacted] holds current TOP SECRET and Special Clearances
 with [redacted] M.D., who also holds TOP SECRET
 and Special Clearances, will work on the medical and clinical aspects of this
 project.

2. As of 31 July 1971, only 23.3% of the available funds had been spent (com-
 pared with a projected 75%). Accordingly, work on the project is considerably
 behind schedule and it will be necessary to request an extension of time, without
 additional funds, to complete the work. A six-months no-cost extension to
 30 April 1972 is therefore requested.