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ORD 1964-65
14 July 1965

MEMORANDUM FOR: Deputy Chief/Technical Services Division

SUBJECT: Life Sciences Programs of Possible Interest to Technical Services Division

1. To follow up on our discussion of a few weeks ago, I have the impression that TSD is cutting back on some of its activities in the life sciences although there continues to be substantial requirements within DD/P for techniques stemming from the Life Sciences when and if they become operationally useful. This also seemed to be the flavor of Mr. Helms' memorandum to the DD/S&T dated 26 December 1963.

2. Life Sciences activities in ORD include four major programs: Stress, Human Behavior, Animal Studies, and Weapons Detection and Development. Certain projects within these programs appear to have potential value to DD/P but would certainly require careful review and further development in order to meet specific operational requirements. Examples which come to mind include the use of animals and birds for the emplacement of sensors or transponders, the use of chemicals or other techniques for the manipulation of individuals or small groups, techniques for remote detection of weapons systems or their components, and methods for remotely assessing the response or reactions of individuals.

3. Research and development in some of these areas is "high risk" in the sense that the chances for success are relatively small, although the payoff could be of immense value to DD/P as well as other directorates. Success in these programs depends not only on careful selection of research and development but on clearly identified requirements specific enough in nature to permit us to focus on those of highest priority with greatest likelihood of success. It is also important that we avoid duplicating projects currently under way under TSD's auspices. Duplication was avoided, for example, in the case of the missile fuel detection problem by an exchange of information last winter.

4. I do not feel that I have an adequate appreciation of the specific research in certain areas which I understand are

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being pursued by TSD. These include current projects on BW/CW collection, manipulation of behavior (chemically or other means), and remote physiological and psychological assessment. This information gap can be filled relatively easily. Some mechanism should be found to keep each other fully aware of relevant programs. I can assure you that you will have our complete cooperation in this regard.

5. TSD could provide substantial assistance to ORD by identifying intermediate and long range requirements in certain of the Life Sciences areas. You may recall we requested your assistance in determining whether there are requirements for our dolphin and bird projects within DD/P. Perhaps there are other projects in our program of potential interest to DD/P. In this regard, we have recently completed a survey which emphasized a number of behavioral areas including drugs which we will send to you for your information and comments. This study was not done in response to a DD/P requirement but was a background study for our own use. It occurs to us, however, that there may be some specific areas covered by this survey which you may wish to have studied in more detail.

6. I would appreciate any comments you may have on ways in which we can provide realistic support to DD/P components and in turn assure ourselves of adequate feedback.

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