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9 MAR 1964

MEMORANDUM FOR: Deputy Director of Central Intelligence

VIA: Executive Director-Comptroller

SUBJECT: Study for Search Satellite System -
Project KWFULCRUM

1. This memorandum contains a recommendation for the approval of the Deputy Director of Central Intelligence. Such recommendation is contained in paragraph 6.
2. Since the advent of satellite photographic systems, considerable attention has been given to the sheer process of obtaining more and better photography and little effort devoted to the exploration of other or complementary sensing devices. Those efforts which have been undertaken are singular and not concerned with the variety of sensing activities as a whole.
3. To augment a present in-house effort we propose to conduct a study with the ITEK Corporation to determine the feasibility and potential intelligence value of using various individual sensors and combinations thereof in a satellite system. Specifically, the ITEK Corporation has agreed to perform an analysis of sensing techniques, such as infra-red, ultra violet, color, etc., which are available or could be developed. Each such system would be evaluated against performance capabilities, environment, size and cost, data storage and transmission techniques, processing and interpretation, and finally requirements.
4. At the conclusion of the study, we hope to have identified not only a complete package of the physical capabilities of each sensor system or their combination but also the "atmospheric" limitations of each. With finalized requirements in hand and a comparative analysis of possible systems, a decision could be made then for the next follow-on search system and a feasibility study for the engineering and design of the system undertaken.

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5. Based upon ITEK's proposal and subsequent discussions, it is estimated that \$275,000 will be required to fund a system study and engineering design. Although we did not specifically budget for this project, funds are available in the ORD budget to meet this expense.

6. It is recommended that you approve the expenditure of \$275,000 from ORD funds for this study and system design.

Albert D. Wheelon
ALBERT D. WHEELON
Deputy Director
(Science and Technology)

CONCUR:

Executive Director-Comptroller

The recommendation contained in paragraph 6 is approved.

Deputy Director of Central Intelligence

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