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January 22, 1965

Dear Mr. McCone,

At the request of Dr. Whoolson this letter outlines the study efforts being undertaken by different NRO contractors, exclusive of those on FULCRUM, that apply to or are related to general search and surveillance systems.

Eastman Kodak Valley Contract

The initial Valley effort began in January 1963; it is now scheduled to end in June 1965 at a total cost of \$8.5 M. During the Spring of 1963, the study was directed specifically to general search systems based on use of a TITAN III-C space booster. In the summer of 1963, Valley was reoriented to broad parametric studies and some preliminary design studies of critical or interesting components, such as film transports, new optical designs, etc. In August of 1964, the effort was modified to address the specific task outlined below. On this task, \$500,000 has been expended to date.

Itek Contract

This contract was initiated in November 1963, and through January 1965 it will run to a total cost of \$1.75 M. The work has included such items as atmospheric investigations using balloon photography, and some work on large aperture optics. Sometime between December 1963 and February 1964, study efforts were directed to emphasize general search systems. In August of 1964, the specific task outlined below was directed, and \$300,000 has since been expended on this task.

FULCRUM

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CONTROL SYSTEM ONLY

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Fairchild Contract

The Fairchild effort on the specific task began in August 1964 and has now been completed at a cost of \$100,000.

The Task referred to above is defined briefly as follows:

Task

Conduct appropriate studies leading toward the definition of one or more general search systems under the following guides:

- TITAN IIIX/Agena Space Booster;
- Three foot resolution or better;
- Full stereo coverage of 7 to 10 million square miles;
- Alternative recovery systems similar to the IMSC proposed "six-pack" are to be applicable.

Negotiations with ERG and Itak are now in progress to define further work, up to a maximum of \$200,000 each, on continued efforts on this task.

In addition to the above, two other related efforts are currently under contract.

IMSC

Between December 1964 and March 1965, IMSC has a \$150,000 contract to study adaptation of the Agena to a larger diameter payload, to update studies of the "six-pack" R/V concept, to study the integration of various protective measures, as well as an increased orbit adjust capability into the Agena as it might be used for a general search system.

General Electric

From December 1964 to March 1965, at a cost of \$144,000, GE is studying the adaptation of the back-up G³ spacecraft to the general search mission, features include a simplified

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attitude control system, increased orbit adjust capability,
and adaptation to the "six-pack" R/V application.

It is hoped that the above information will provide
a useful background prior to the detailed briefings to be
presented to you and Secretary Vance, now scheduled between
10:00 and 12:00 hours on 2 February 1965.

Sincerely,

mgm
Brockway McMillan

Honorable John A. McCone

Director of Central Intelligence

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