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MEMORANDUM FOR: Director, National Reconnaissance Office

SUBJECT

: Funding for Project FULCRUM

- l. In reference to our previous discussions on this subject, outlined below are the various tasks for which we require immediate NRO funding. We have placed particular emphasis on those areas which the LAND PANKL has identified as meriting immediate attention.
- 2. Upon the conclusion of this effort, scheduled for six months, we should have amassed a substantial appreciation of the technical aspects of each task which will permit an over-all evaluation of the program with a high confidence factor.
- 3. The schedule calls for the lowever, with \$.850 million made available from Agency year-end funds, our funding requirements from the NRO total specifically:

FILM DRIVE AND CONTROL

One of the key potential problem areas named by the Land Panel was the handling of film at high speed within prescribed tolerances. We consider this task sufficiently critical to warrant the parallel, yet independent, approach of two contractors. Specifically, we desire the brass-boarding of the film transport system to permit the measurement of film velocity errors, a statistical estimate of image degradation, appropriate environmental testing and evaluation of a high speed system on film, i.e., scratching.

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CAMERA DESIGN, ENGINEERING, MOCK-UP AND DYNAMICS

This task will permit the detailed analysis of the camera dynamics, bearing loading, gas requirements, perturbation to camera rotation due to spacecraft torquing and the effects of start-up transients and film movement. It will also provide for facility analysis, optical design and exploration of alternate camera composition.

WEIGHT BUDGET AND DYNAMIC BALANCE

This task includes funded proposal efforts in both the spacecraft and recovery vehicle systems with follow-up design and development efforts by those companies awarded the contracts. Detailed attention will be given to the payload weights and dynamic balance.

ASSEMBLY, INTEGRATION, AND CHECKOUT

This task provides the basic management housekeeping over the interface control problem, the overall engineering reliability, and the analysis of the AIC facility.

OTHER

This item provides for ancillary studies surfaced during the initial FULCRUM effort as well as limited supplemental funding to the tasks listed above.

SUB TOTAL
Less Agency Funding

TOTAL REQUIRED

ALBERT D. WHEELON
Deputy Director
Science and Technology