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MEMORANDUM FOR: Director, National Reconnaissance Office  
SUBJECT : Funding for Project FULCRUM

1. 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 PANEL 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 \$5.35 million; however, with \$.850 million made available from Agency year-end funds, our funding requirements from the NRO total \$4.5 million; specifically:

FILM DRIVE AND CONTROL \$1.650

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, \$1.810  
 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 \$1.0  
 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 \$ .500  
 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 \$ .390

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	\$5.350
Less Agency Funding	<u>.850</u>
TOTAL REQUIRED	\$4.500

*Albert D. Wheelon*  
 ALBERT D. WHEELON  
 Deputy Director  
 Science and Technology

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