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SURVEY APPLICATIONS COORDINATING COMMITTEE

Washington, D. C.

19 September 1967

MEMORANDUM FOR EXECUTIVE SECRETARY, SURVEY  
APPLICATIONS COORDINATING COMMITTEE

SUBJECT: Review of Two NASA Documents

The Department of Defense members of the Survey Applications Coordinating Committee have reviewed copies of the following documents:

a. "The Potential Applications of Satellite Geodetic Techniques to Geosciences," prepared by the Ad Hoc Advisory Group to NASA, February 1967.

b. "Investigation of the Feasibility of the Application of Satellite-Based Photogrammetric Techniques to One-Meter Geodesy," a proposal submitted to NASA by the Department of Astronomy, University of South Florida, March 1967.

Document a is compatible with the security guidelines established in the charter of the Survey Applications Coordinating Committee.

Document b proposes work, specifically in part A, much of which has already been accomplished within the Department of Defense. In addition, bona fide one-meter geodesy would require a state-of-the-art camera system with considerably better resolution than that prescribed for NASA's use in earth sensing. Although TV imagery is postulated, the imagery would necessarily be transferred to a hard copy of known geometry and resolution. The system would be need to be designed to operate at resolution levels which would compensate for the degradation imposed by electrical recording, trnasmission, and re-recording. Such a resolution capability would automatically place the system in the high resolution, precision category and classify its

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use for earth sensing. It should be noted that even with such a system, the best one could hope for over distances of 1000 miles is about 20 meters -- rather than one meter.

We recommend that Part A University of South Florida's proposal be dropped from consideration.

*Paul E. Worthman*  
PAUL E. WORTHMAN  
Colonel, USAF  
Member

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