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20 APR 1964

MEMORANDUM FOR DIRECTOR, (S)NRO STAFF

SUBJECT: Edge Measurement Experiment

- References: (a) Report of the Photo Working Panel on the C/M System, dtd 8 Feb 64
- (b) (S)DNRO Memo to Director, (S)NRO Staff, Subject: Report of the Photo Working Panel on the C/M System, dtd 2 Mar 64

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The committee appointed to plan a specific program for implementation of reference (a) has submitted their recommendations. Included in the recommendations is a flight experiment to obtain known edge characteristics with both the [] and CORONA systems. The targets to be used should be carefully constructed special edges, synthetic, specific continental U. S., and actual USSR targets.

The synthetic targets are to be designed so that the laboratory acceptance criteria and targets can be simulated by ground targets photographed from orbital attitude. Edges are to be long enough and the areas adjacent to the edge large enough to allow an acceptable trace of the edge. Statistically controlled experiments are to be conducted on the synthetic targets. The photographs from engineering passes are to include runways, buildings, etc. from which ground truth can be readily determined and correlated. The edges selected from mission photography are to be as similar as practical to those selected on engineering passes.

The data is to be collected both with the same camera over all targets and with different cameras. The edges are to be traced in the identical manner and as nearly as possible by the same people as those included in

NRO review(s) completed.

CORONA

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reference (a). Edges are to be selected over the entire field and on a repetitive basis. Correlation of the data collected from special edges, synthetic targets in the laboratory and flight, engineering passes, and mission photograph is to be made with the data presented in reference (a).

SIGNED:

Brockway McMillan
Director
(S)National Reconnaissance Office

cc: Dr. Wheelon

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