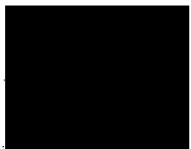


TOP SECRET GRESS



Series A - TCS-2209-57  
OC-81-57  
Copy 1 of 4  
30 October 1957

25X1A

*Implementing msg out to  
25 Nov ASB*

MEMORANDUM FOR: Project Operations  
FROM: Chief, HTAUTOMAT  
SUBJECT: A Recommendation For Photographic Control Exposures To Be Accomplished During Each Photographic Mission.

1. This memorandum is submitted pursuant to discussions on the 24th of October with Operations representatives, Lt. [REDACTED]

2. The unparalleled quality of photography presently provided by Project Aquatone demands its complete utilization. To that end HTA requires more photographic information than is currently available. Precise focal lengths, angles of obliquity, lens distortion patterns, etc. are examples of the kinds of information required for quantitative measurements, without which, lengths, widths, heights of buildings and complexes, and their angular relationships cannot be determined to the required degree of accuracy.

3. As soon as possible a photogrammetric range will be established at each base. These ranges will provide in a most effective manner, the key control data for each mission regardless of the combinations of cameras, lenses, cones and magazines used.

4. Specifications for control exposures over photogrammetric ranges.

<u>F/L</u>	<u>Altitude</u> (200 MPH)
6" (A-1)	not less than 7500'
24" (A-2)	not less than 15000'
36" (B)	not less than 17000'

Note: Can be accomplished at either beginning or end of mission.

Altitudes should be close to those stated above.

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SUBJECT: A Recommendation For Photographic Control Exposures  
To Be Accomplished During Each Photographic Mission.

5. It is necessary to begin flying the control photography as soon as possible, even before the photogrammetric ranges are established and surveyed. When the ranges are surveyed, all previous missions flown over the range can be identified and calibrated, thus decreasing the accumulation of the number of missions for which no precise geometric data can be obtained.

6. During the control exposures the vertical camera should be centered over the airfield proper. About 5 exposures with each camera will be sufficient to permit the necessary control work to be accomplished.

7. It is recommended that field units be advised by Project Hq. to fly control exposures during each photographic mission under the specifications shown in paragraph 4.

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