

A3

21 February 1967

MEMORANDUM FOR:

ATTENTION:

THROUGH:

SUBJECT: Answer to Request of Speed Letter
dated 30 January 1967

1. Analysis of the UFO target in the provided photographs was restricted to the limited extent permitted by the copy prints. It must be remembered that the conclusions presented are based on the examination of copies rather than the originals. The copying process adds not only the grain and streak characteristics of the original image, but also may distort the accuracy of reproduction even when the exact enlargement parameters are known. In this case, these parameters are unknown.

2. The following was assumed for the basis of this analysis. The accuracy of these assumptions, however, is questioned.

a. The total enlargement factor of prints one and three is the same.

b. The total enlargement factor of prints two and five is the same.

c. The total enlargement factor of prints one and three is approximately two times that of prints two and five.

3. Findings:

a. The pattern of apparent grain clearing is similar in prints one and three and in prints two and five.

b. The edges of the UFO target are more sharply defined in print one than in three of the helicopter target in print three.

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c. Contrast and density analysis of the image was not considered valid due to the inherent distortions caused by the copying process.

d. The edge sharpness of the UFO image in print two appears quite similar to the edge sharpness of the pipe in the same print.

e. It is assumed that the difference in image size between prints two and five was caused by a change in camera-to-UFO distance. This distance was less in print five than in print two. The following two conditions are offered:

(1) Considering a large UFO at a distance of approximately 1000 feet (1,000 feet) and a stationary camera location, the UFO would have had to travel a considerable distance (200 feet) in a slight line almost directly toward the camera position to produce such a change in image size.

(2) Considering a small, stationary UFO at a distance of approximately 500 feet and a slightly variable (100 feet) camera location, a change in image size of this magnitude would have resulted from a change in camera location of less than the above variable.

f. _____ has reviewed the quantitative results obtained by _____ and has found no discrepancies in what has been done. Unfortunately, with the material available very little objective inference can be obtained except building some tables of image size versus distance from the camera station. _____ feels that the only way to print would enable further quantitative study by providing the total geometric image size and geometry of the exposure. It is anticipated that this study would concentrate on three areas:

(1) Human error (consentation including speed, distance, and angle.

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(2) Stereoscopic analysis of the UFO and its relationship with the surrounding branches, pole, and camera station.

(3) Dynamic analysis of the relative movement of the system including camera station and UFO.

4. Conclusion:

If no definite. To decide the authenticity of the image as being a UFO is not possible from the furnished prints. It is probable that an analysis of the original photographs would provide added information which would enable a definite conclusion. Associated facts such as the location of the camera, the location of the wire frame through which the photographs were taken and the distance in scale of the UFO image between prints two and five which is most easily explained with a model tends to contribute to the model theory. A definite conclusion as to whether the object is either a model or a genuine UFO can be offered at this time.