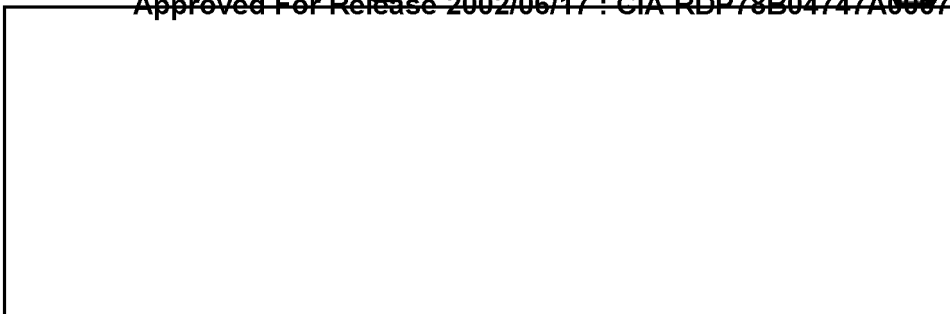


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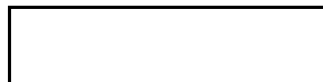
0 June 1965

25X1A



Enclosed are five copies of Technical Report
No. 4 on the above-referenced contract.

Sincerely yours,



25X1A

WB:aq

Enclosures: Technical Report No. 4 (5 copies)

cc:

Contracting Officer

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GROUP I
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND DECLASSIFICATION

CONFIDENTIAL

Declass Review by
NIMA/DOD

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Technical Report No. 4

Government Contract [REDACTED]
[REDACTED]

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a. Current Status of Work

The following areas have been worked on during the period starting April 24, 1965.

1. Target fabrication. The equipment to produce the final targets have been designed and built. The fabrication of the target has been started.
2. During this reporting period we received a complete set of filters. The first set is mounted in the holders and we have begun our evaluation to determine the best contrast values for these filters.
3. The additive method, as described in Report No. 3, was more fully studied. Our conclusion is that, for the purpose of checking viewers, this method is preferable. There is no need to change the input platen of the equipment, and the precision obtainable is about the same as in the originally-proposed method. The best way to implement this method seems to be to use targets with a visibility $V_T = V_O = 1$. (See Report No. 3, Page 8, Equation 14.) Equation (15) then becomes

$$\tau = \frac{I_1'}{I_0'} \quad (1)$$

With a simple photocell arrangement we can thus determine τ .

The method to be pursued will be discussed with your representative on July 8, 1965.

b. Problem Areas Encountered

No problem areas were encountered.

c. Projected Work for Next Monthly Period

The evaluation of the target and filter will be continued. Target fabrication will continue. After the decision has been made regarding the method to be used, the design of the final equipment will be started.

d. Status of Funds Expended

From the period of April 24, 1965 to June 25, 1965 the sum of was spent on subject contract. This figure includes direct labor, materials, overhead and G. and A., and fixed fee.

e. Documentation of any verbal commitments and/or agreements with the Technical Representatives of the Contracting Officer during the reporting period

There have been no verbal commitments during this reporting period.

Submitted by:

30 June 1965