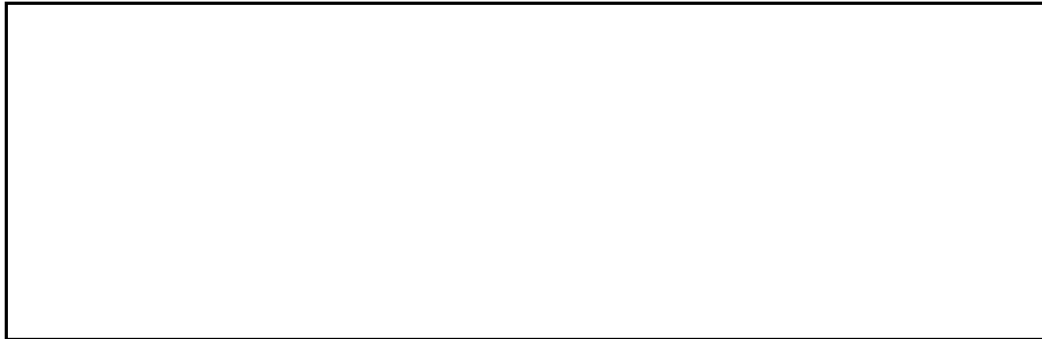


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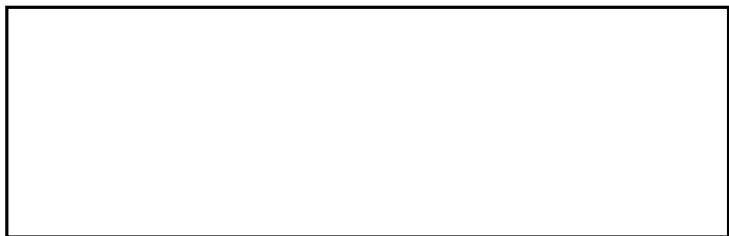


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Enclosed are three copies of Technical Report
No. 8 on the above-referenced contract.




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WB:aq

Enclosures: Technical Report No. 8 (3 copies)

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cc: 
Successor Contracting Officer
(2 copies)

Declass Review by
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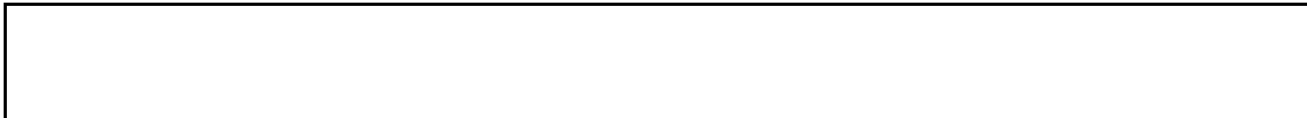
Technical Report No. 8

Government Contract [REDACTED]
[REDACTED]25X1A
25X1AA. Current Status of Work

The following areas have been worked on during this period.

1. The influence of limiting the target to 15 bars was further investigated. The full mathematical details will be given when we have more examples worked out. We have not been able to get the results in a closed form, but for any given transfer function we can compute the influence. For representative transfer functions computed to date the influence is negligible. Again, when we finish our examples we will give a full report.
2. The technique to align the polarizers is fully worked out and is satisfactory.
3. The modulation of the filters, up to this point, were measured on a regular microdensitometer. These instruments use a large cone of light which comes from the filter. The way we use the filters is with a fairly

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small cone of light. The densities measured in these two ways might lead to different results due to the "Callier" effect. To ensure that the modulation measured on the filters is the one that is effective in the use of the instrument, we are building equipment to measure the filter under conditions of actual use. This equipment will be ready in about two weeks.

4. The eyepiece filter-holder has been redesigned to its final form and one unit should be ready in about two weeks.
5. The target-holder and light box is on the drafting board for final design. It should be ready for the shop in approximately one week.

B. Problem Areas Encountered

No problem areas were encountered during this period.

C. Projected Work for Next Monthly Period

1. Work will continue in the areas described in Section a.1, a.3, a.4 and a.5.
2. Work will commence in two weeks on the second model.

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D. Status of Funds Expended

From the period of April 30, 1966 to July 31, 1966

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the sum of was spent on subject contract.

This figure includes direct labor, materials, overhead and G & 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.

No verbal agreements or commitments were made during this period.

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