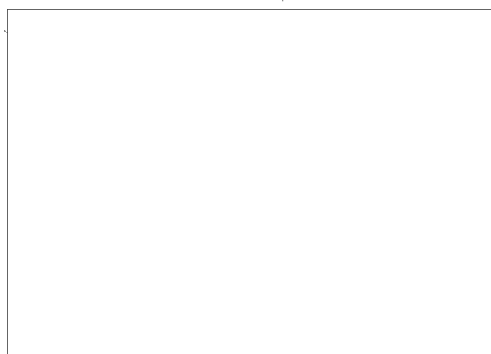
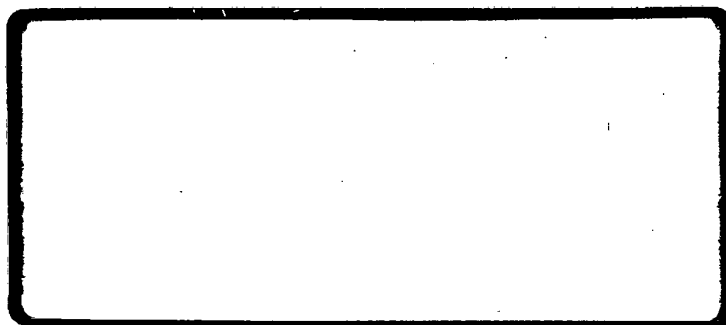


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STATUS REPORT

for period

1 October through 31 October 1970

U. S. GOVERNMENT

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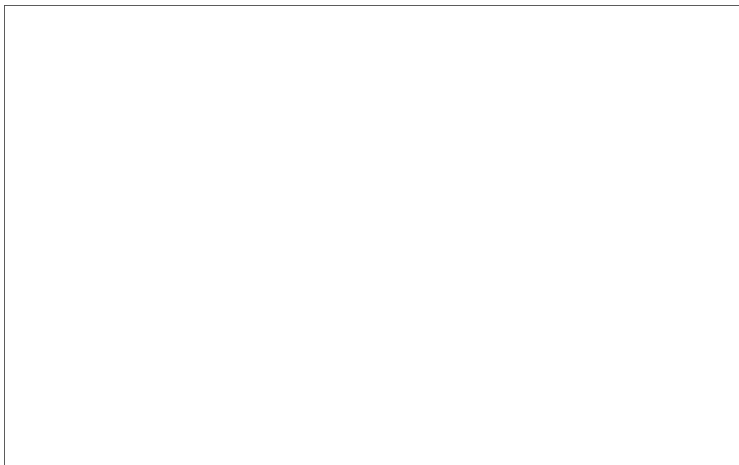
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This document is presented as the Monthly  
Status Report under Contract to the U. S.

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The report period represented herein covers the  
period 1 October through 31 October 1970.



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## STEREOCOMPARATOR

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31 October 1970

**STEREOCOMPARATOR**

**PROGRAM SUMMARY**

Scheduled Percentage of Completion	98.5%
Actual Percentage This Date	95.1%

During October the Stereocomparator has been prepared for the Part I of the In-Plant Acceptance Test.

Many last minute hardware changes have been made, particularly related to the interferometers, the counting logic, and the inclusion of the interface for the diagnostic computer program.

The individual elements of the optical system have been tested earlier  and no difficulty is anticipated with this phase of the hardware.

STAT

The existing schedule requires that Part I of the Acceptance Test begin on November 16 and be completed by November 25. In order to continue the computer programming work for Part II of the Acceptance Test (to be performed in December, 1970), the Part I testing will be conducted on the afternoon shift and on the weekend.

31 October 1970

The actual time required to perform the tests, assuming there are no operating problems, is relatively short. Thus, it is expected that the 10 day period available for testing should be quite ample.

The technical monitor visited  early in October for the purpose of conducting a routine review of the program status at this time.

STAT

The Stereocomparator is presently on schedule.

31 October 1970

## STEREOCOMPARATOR

## Task 2

## SCHEDULING AND PLANNING

Scheduled Percentage of Completion	100%
Actual Percentage This Date	100%

In the September, 1970 report, completion for the in-plant Acceptance Test was scheduled for January 15, 1971. The period from the commencement date of December 11, 1970 to January 15, 1971 was exceptionally long because of the holiday season with the attendant general work disruptions anticipated during such periods.

For this reason, an "earliest possible" schedule revision is suggested, which, if all goes well, will allow the performance of Part I of the Acceptance Test between November 16 and November 25. Since this work must be done on a non-interfering basis with the other activities incidental to the completion of the Stereocomparator hardware, it will be necessary to perform the tests after 7:00 p.m. during the week, and all day on Saturday and Sunday, November 21 and 22.



31 October 1970

Since there is no contingency built into a schedule of this sort, it is not possible to form a fixed schedule, but instead, the interested parties will be kept informed as to the progress of the work during the first half of November.

Assuming that the Part I Acceptance Test is performed according to schedule, the Part II Acceptance Test procedure will take place in the period December 14 to December 18, 1970.

If the in-plant Acceptance Test buy-off is as scheduled, it will then be possible to disassemble and ship the Stereocomparator so as to arrive at the final site immediately after the New Year's holiday.

This would improve the October 5 schedule by more than one month. The completion date of the final Acceptance Test might thus be April 2 rather than May 7.

31 October 1970

STEREOCOMPARATOR

Task 22

INTERFEROMETER ASSEMBLY

Scheduled percentage of completion	100%
Actual percentage this date	77%

Assembly of parts for the new interferometer began the week of 26 October.

The new 24 inch mirrors have been installed and rough alignment completed.

The new 11 inch mirrors have been received and mounted.

Projected completion of the new interferometer is 6 November 1970.

T22-1

31 October 1970

STEREOCOMPARATOR

Task 35

VIBRATION ABSORPTION AND LEVELING

Scheduled percentage of completion	100%
Actual percentage this date	92%

The dashpots have been detailed and checked and sent out for fabrication.

The brackets for installation at the customer's facility were shipped 21 October.

Assembly and installation will begin about 9 November and be complete about 27 November.

31 October, 1970

STEREOCOMPARATOR

Task 43

COMPUTER PROGRAMMING AND SERVICES

Scheduled Percentage of Completion	100%
Actual Percentage This Date	94%

The Informatics Inc. report on the status of the computer program effort for the Stereocomparator is included on the following page.

31 October, 1970

MONTHLY PROGRESS REPORT

Project 342 - September, 1970

This technical report is for the month of September, 1970. The report is prepared according to  specification TD1001 (as modified).

STAT

1. During September work on the final integration continued. The non-realtime portion of the program was demonstrably completed. The background portion of the program was also integrated and demonstrated, as far as can be without real camera data. It was also demonstrated that the subprogram RECALL can successfully drive the stages.

All subroutines and drivers for the Stereocomparator have been coded and unit tested at this time.

2. During October Informatics' personnel will continue final integration as long as the Stereocomparator hardware remains available. During this time the foreground portion of the program will be integrated and demonstrated. When this is done, if (1) the

31 October 1970

Stereocomparator is still available and (2) photography and matching camera data are available, then work will begin on the total integration in preparation for the final acceptance tests.

3. At this time there exist no pending unresolved technical problems.

The programming for Project 342 is 95% complete.