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DATE 10-5-73

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TO:

NAME OF REQUESTER

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17 FEB 1970

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[redacted] 25X1

Subject : RFP No. PIC-02-70 (50040)

Gentlemen:

Our records indicate that you did not elect to submit a Proposal in response to the subject Request for Proposal.

Pursuant to prior instructions, it will be appreciated if you will return all correspondence pertaining to the above matter.

Very truly yours,

[redacted] 25X1

Contracting Officer

CONFIDENTIAL

GROUP 1
Excluded from automatic downgrading and declassification

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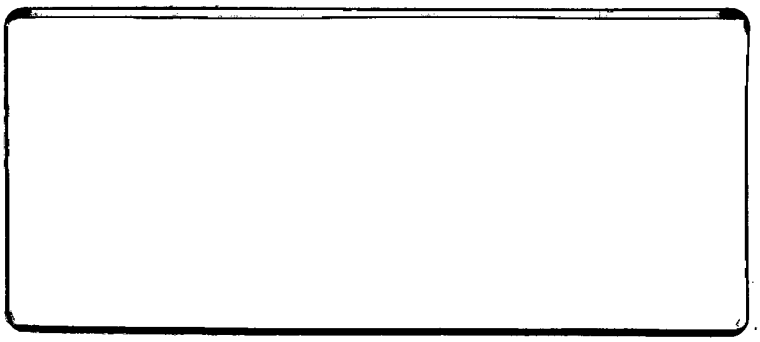

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STATUS REPORT

for period

1 December through 31 December 1970

U. S. GOVERNMENT

[redacted] 25X1

File No. 11038

[redacted] 25X1

This document is presented as the Monthly Status Report under Contract to the U. S. Government, [redacted] 25X1

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

[redacted] 25X1

[redacted] 25X1

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31 December 1970

# STEREOCOMPARATOR

## INDEX

31 December 1970

# STEREOCOMPARATOR

## PROGRAM SUMMARY

| | |
|---|---|
| Scheduled Percentage of Completion | 98.9% |
| Actual Percentage This Date | 96.9% |

It had been hoped that the In-Plant Part II Acceptance Test could be scheduled for the week of December 14, 1970. Unfortunately, delays in integrating the program occurred which have resulted in a scheduled date of January 26, 1971 for the beginning of the Part II Acceptance Test.

The delays encountered included illness of the programmer, breakdown of the air conditioning system, and installation of the stage drive vibration dampers.

The integration of the computer program with the frame photography is almost complete.

31 December 1970

The stage vibration dampers are performing satisfactorily. The natural frequency peaks which caused the stage resonance and which were reported on in previous reports have been eliminated, and the servo system is now in operation.

The present schedule (see Task 2) shows the on-site installation starting on February 16 with the Acceptance Tests starting April 26.

31 December 1970

# STEREOCOMPARATOR

## Task 2

## SCHEDULING AND PLANNING

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

The schedule for installation of the Stereocomparator is based on completion of the fabrication acceptance tests during the week of January 26, 1971.

The estimates and time for the various operations presuppose no shipping damage or unusual situations during the installation.

The preliminary list of personnel taking part in the installation with their on-site schedules appears on the following page.

# Job 342 - On-Site Installation Plan

## Schedule

| | |
|---|---|
| Feb 12, 1971 | Completion of Packing |
| Mar 1, 1971 | Arrival at site and start of installation |
| Mar 26, 1971 | Completion of installation and preliminary checkout |
| Apr 9, 1971 | Completion of optical adjustment |
| Apr 23, 1971 | Completion of system debug, including computer program |
| May 7, 1971 | Completion of Acceptance tests |

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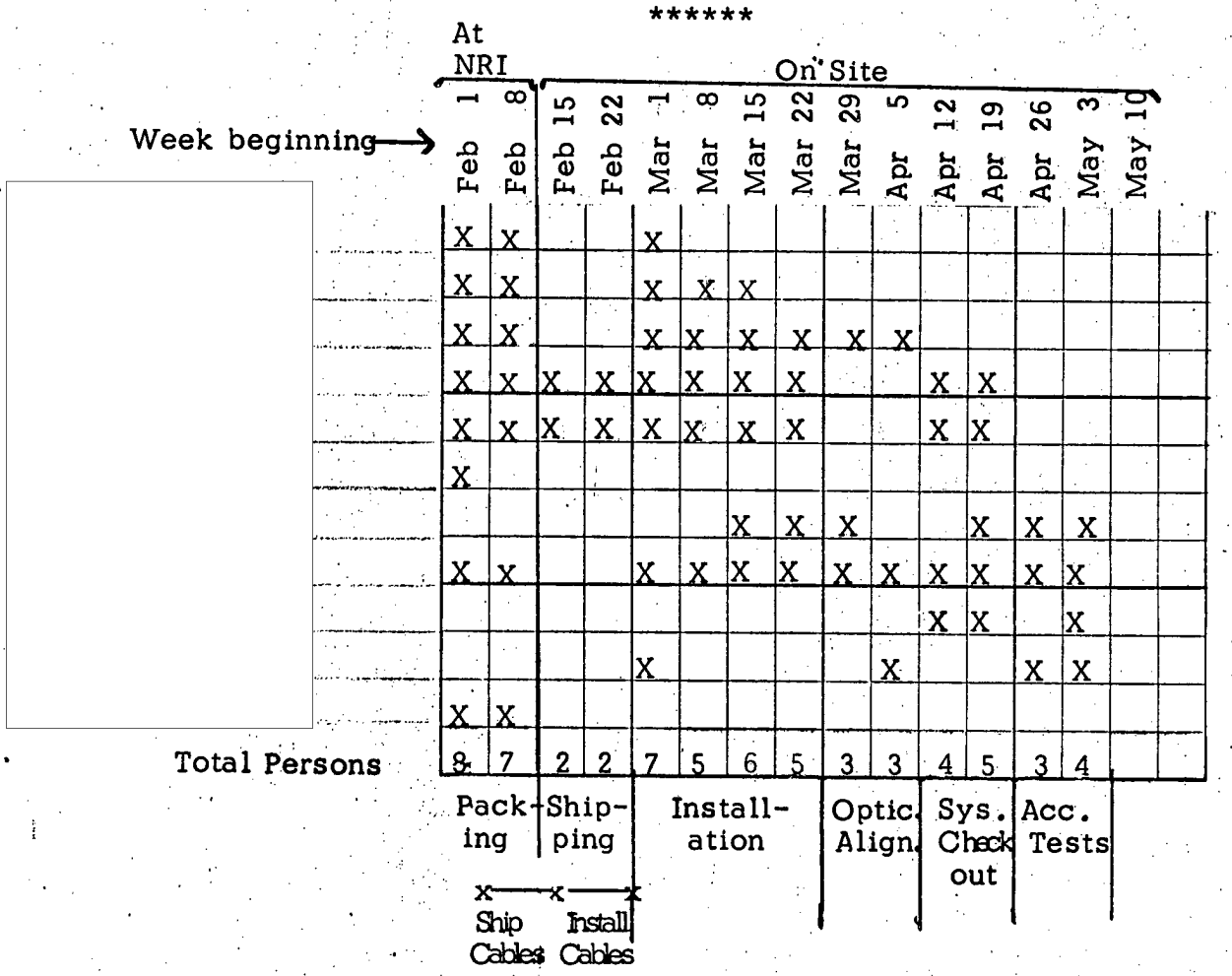


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31 December 1970

STEREOCOMPARATOR

Task 8

SKIN

| | |
|---|---|
| Scheduled Percentage of Completion | 100% |
| Actual Percentage This Date | 85% |

The work of skinning the Stereocomparator assembly is almost complete.

The skin appearance is following the artist's conception provided at the beginning of the project.

31 December 1970

# STEREOCOMPARATOR

## Task 35

## VIBRATION ABSORPTION

| | |
|---|---|
| Scheduled Percentage of Completion | 100% |
| Actual Percentage This date | 100% |

The four vibration dampers were mounted on the ends of the granite base blocks. These units are for the purpose of reducing the natural resonance of the stages and stage drives to a negligible level for the frequency range utilized by the stage drive servo system. The stage servo response frequency has been increased to 30 Hz in place of the maximum 11 Hz without the dampers.

Because of the limited time available, there was no possibility of performing meaningful tests prior to fabricating and installing the finished full scale vibration damping units. It was thus necessary to design these units on the basis of theoretical considerations only, using appropriate contingency factors so that the damping would be adequate in actual use.

Since an over-damping condition would result in undesirable characteristics, the damping fluid was added in increments between tests of the stage servo drives. The damping system presently performs satisfactorily with each of the four systems containing 50% of its maximum fluid fill.

The fluid used in the units totaled ten gallons (80 pounds) of General Electric silicone "Viscasil" of 10,000 centistokes viscosity at 25° Centigrade. The fluid is a dimethyl silicone and is nonvolatile, nontoxic, and chemically inert. It repels water and has a useful temperature range of from -60° Fahrenheit to +500° Fahrenheit.

31 December 1970

# STEREOCOMPARATOR

## Task 43

## COMPUTER PROGRAMMING AND SERVICES

| | |
|---|---|
| Scheduled Percentage of Completion | 100% |
| Actual Percentage This Date | 97% |

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[redacted] has furnished a report on the status of the computer effort for the Stereocomparator. Excerpts from this report are included on the following page.

The programming effort was interrupted by illness, breakdown of the air conditioning, and installation of the vibration dampers. This has resulted in a change in schedule for the completion of the programming work to January 15. The integration of the program with the frame photography is essentially complete, and the stereo model appears satisfactory.

Work resumed on the Stereocomparator program on 16 November 1970. The non real-time portion of the program has been thoroughly checked out during the month using actual stage measurements and operating procedures.

In December, the optics and correlator will be integrated into the software as the system becomes available. When this has been done, the background will be re-enabled and checked out. Acceptance testing will then begin.

This time there exist no pending unresolved technical problems.

The programming for project 342 is 99% complete.

31 December 1970

# STEREOCOMPARATOR

## Task 48

## LIGHT LEVEL CONTROL

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

The light level control system has been installed and is operating satisfactorily. This unit controls the light level through the use of photomultiplier tubes which are arranged to limit the maximum illumination level. These maximum levels are adjusted through special purpose computer logic so that overheating of the film cannot occur even if directed by the operator by accident.

In addition the light level is maintained at a constant (except for the restriction above) for optimum ease of viewing.

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