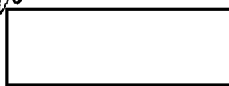


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Handwritten initials/signature

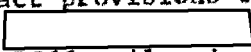


4 January 1967
635 - OD-138
LHB:aw

25X1

Subject:  Progress Report
October 1966, Project No. 635

Gentlemen:

In accordance with contract provisions on the above project,
we are enclosing two (2) copies of  Progress Report on
Project 635 for the period October 1966. Also included is our Financial
Report for the period October 1966.

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Very truly yours,



25X1



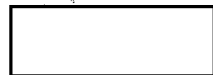
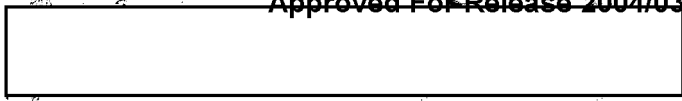
Executive Vice President

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Enc. (2) P.R.
(2) F.R.

Cert. #855531

DECLASS REVIEW by NIMA/DOD



635 PROGRESS REPORT

Period Covered: October 1966
Document No.: OD-137
Dated: 28 November 1966

PRESENT STATUS

Fabrication of parts and procurement is complete with exception of a few items associated with the electronics. These delinquent items are not affecting the assembly however.

Mechanical assembly of the table is 25% complete and of the elevating table 50% complete.

PROBLEM AREAS

Tracking Light Sources

Difficulty has been encountered in the design of the high intensity tracking light sources in obtaining full coverage over the viewing area. The problem is with the design of the mechanical linkage which is used to position and hold the master magnets. Last month it was reported that interferences exist when the magnets are toward the rear (away from the operator) of the viewing format; it was also suggested that this may not be a serious limitation. However, since that writing, it has been established by the customers representative that the rear portion of the viewing format is of great importance because of the more favorable position of the microscope eyepieces with respect to the operator when the rhomboids are positioned toward the rear. Consequently, the design has been changed so that the rear part of the format is favored. This, however, only shifts the problem area from the rear to the front of the format. Fabrication of the new design is proceeding

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with the realization that there may be an area in the front of the format where the high intensity sources may not be useable.

Platen Raising Mechanism

Initial tests of the platen raising mechanism showed that friction and alignment tolerances resulted in marginal performance. The design was immediately changed and the modification is currently being incorporated. The change does not alter the basic actuating device (a linear induction motor- "Polynoid") but only requires modification of the actuating linkages.

PROJECTED WORK FOR NOVEMBER

Mechanical assembly will be 80% complete. Electrical assembly will be 50% complete.

FINANCIAL REPORT

Financial report for month of October is enclosed.

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