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31 October 1966
635 - OD-136
LHB:rf

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Post Office Box 8031
Southwest Station
Washington, D.C. 20024

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Subject: [Redacted] Progress Report -
September 1966, Project 635

Gentlemen:

In accordance with contract provisions on the above project, we are enclosing three (3) copies of [Redacted] Progress Report on Project 635 for the period September 1966. Also enclosed are two (2) copies of our Financial Report for this period.

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Very truly yours,

[Redacted Signature]

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Executive Vice President

Encl: (3) P.R.
(2) F.R.

Cert. #855523

DECLASS REVIEW by NIMA/DOD

[Redacted]

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635 PROGRESS REPORT

Period Covered: September 1966
Document No.: OD-134
Dated: 26 October 1966

PRESENT STATUS

Fabrication of parts is complete with the exception of a few parts required for the high intensity tracking light source. Main assembly has been started. Reflection upon film transport systems in general has led to the incorporation of an additional feature in the 635 design. This feature, although not essential to a satisfactory performance of the equipment as specified, will, we believe, represent a considerable improvement in film transport control. The feature of this change, which is currently being incorporated, is the maintenance of a controllable film tension regardless of film speed, spool diameters or accelerations. To accomplish this, a small strain sensing element is mounted on one of the film guide rollers. This element directly measures the film tension and controls the torque on the magnetic particle drag brake on the payout spool. It was felt, since the basic components of this system were already in the design, that this additional capability could be added at minimum cost.

PROBLEM AREASTracking Light Sources

The design problems with the high intensity light source reported previously have not been resolved. However, fabrication and assembly has been continued with the belief that

[REDACTED]

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[REDACTED]

the remaining design problems will be resolved early in the assembly phase. One of the problems is the difficulty of designing the master magnet supports so that they can cover the full viewing area of the objectives. In the present design there is a possibility of some interference. This occurs in the magnet support structure when the high intensity sources are swung to their extreme position away from the operator, that is toward the rear of the viewing format. Since it does not seem to the writer that this area will be commonly used for viewing, we may find that this limitation is acceptable.

Glass Viewing Platen

We have not received delivery of the thin special chemical strengthened glass platen (Chemcor) from [REDACTED]

[REDACTED] This will shortly become a delaying factor because it is intermittently associated with the satisfactory operation of the high intensity tracking light source. The concern here is due to the smaller than specified thickness being supplied by the manufacturer and the possible effect it might have due to its greater flexibility. The change in thickness of the glass from that specified resulted after an order had been placed and at a point in time where we were already committed to this type of design. The vendor, besieged by technical difficulty, was allowed to continue in the fabrication on the condition that the glass could be returned if found to be unsatisfactory due to extreme thinness.

PROJECTED WORK FOR OCTOBER

Mechanical Assembly will be 80% completed.

Electrical Assembly will be 50% completed.

Parts for the high intensity tracking light source will be released and fabricated.

It is expected that the customer's technical representative will [REDACTED] inspection by the end of the month.

Approved For Release 2004/03/26 : CIA-RDP78B04747A002200020028-6



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Enclosure

Financial Report for the month of September.

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