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October 17, 1966



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P. O. BOX 6788  
Fort Davis Station  
Washington, D. C. 20020

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Attention:   
Reference:

Declass Review by NGA.

Subject: 27th Monthly Letter Report

Gentlemen:

Enclosed are five (5) copies of the 27th Monthly Letter Report covering the period of September 1, 1966, to October 1, 1966, in accordance with the referenced contract.

Yours truly,

INFORMATION SYSTEMS



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Contract Administration

WK:ks

Encs: one to Contracting Officer  
✓ four to Technical Monitor

"This material contains information affecting the national defense of the United States within the meaning of the espionage laws, Title 18, U. S. C., sections 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law."

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CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

TWENTY-SEVENTH MONTHLY LETTER REPORT

October 10, 1966

Period: September 1, 1966 to October 1, 1966



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1.0 CONTACT DUPLICATING AND RESEAU PRINTER

1.1 Purpose

The overall objective of the current contract is the design, fabrication, test and delivery of a Photographic, Step and Repeat, Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will be suitable for operational use. The printer will accommodate films of 70mm to 9½-inch width with frame lengths up to 30 inches and will provide operation in the reseau mode and selective mode as options.

1.2 Activity of this report period

Tests were performed on the Printer and on the film punching station on August 31 by  at the government 25X1 facility. At that time two capacitors were installed into the Frame Detection Chassis to improve temperature stability, and a neutral density filter was installed above the printing exposure lamps. After adjustment of one Dodge circuit board, a flash exposure test was made, which indicated marked improvement of exposure uniformity with no density in the film gate.

A review of current test data was held with the technical monitors on September 13 at the government facility.

It was requested that proposals be submitted by  for an input film measuring mechanism having better accuracy to be used with the frame detector, and for a modified punch station, which would improve system precision.

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Further discussions with the government monitors by phone during the week of September 26 resulted in a decision to move the printer to  for continued tests and possible modification. A proposal for testing is in preparation and will be submitted to the government during October.

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1.3 Plans for Next Period

Initiate test and modification program at

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1.4 Problems

Outstanding problems are:

- a. Modification to the Preview and Punch Station to permit final calibration.
- b. Correction of erratic metering of raw stock.
- c. Retest of exposure lamp balance.

1.5 Documentation

There was no new documentation this period.

1.6 Questions Outstanding

There are no outstanding questions.

2.0 HIGH RESOLUTION STEP AND REPEAT PRINTER

2.1 Purpose

The purpose of this effort is to design, fabricate, test and deliver in twenty months a high precision step and repeat photographic contact printer.

This printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll films of width varying from 70mm to 9½ inches and in pre-selected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of this report period

There was no activity this month. The stop-work period expired January 11, 1966.  is still awaiting Government direction.

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