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[Redacted]

September 26, 1966

[Redacted]

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

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Attention: [Redacted]
Reference: [Redacted]

Declass Review by NGA.

Subject: 26th Monthly Letter Report

Gentlemen:

Enclosed are five (5) copies of the 26th Monthly Letter Report covering the period of August 1, 1966, through September 1, 1966, in accordance with the referenced contract.

Yours truly,

INFORMATION SYSTEMS
MARKETING AND PLANNING DEPARTMENT

[Redacted Signature]

Manager, Contracts

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TKL:ks

Encs: one to Contracting Officer
four to Technical Monitor

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CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

TWENTY-SIXTH MONTHLY LETTER REPORT

September 10, 1966

Period: August 1, 1966 to September 1, 1966

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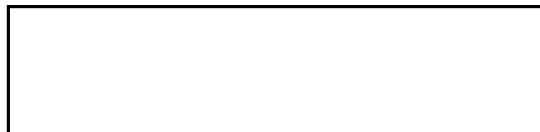


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1.0 CONTACT DUPLICATING AND RESEAU PRINTER

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 70 mm to 9½" width with frame lengths up to 30 inches and will provide operation in the resseau mode and selective mode as options.

1.2 Activity of this Report Period

Final acceptance tests at Army Map Service were interrupted by two machine failures. The failure of the rider lift roller reported on July 26 was traced to a burned out lift solenoid coil. A new coil was received from [] on August 4 and was installed by Government personnel.

On August 8 there was a reported failure of the outer air bag. This was discovered to be a tear along the front-left end of the outer polyethylene bag. Repairs were made by [] on August 10.

A trip was made to Army Map Service on August 17 to review the test results to date. The customer reported problems with punch alignment, negative advance accuracy, raw stock double exposure and uneven exposure control. From review of the test data on the original transport frame separation timer, it appears that the variations observed were normal and the system is operating properly. Tests at [] indicate

a temperature problem may exist with the two timing capacitors, and replacement parts that are more temperature stable have been ordered.

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[redacted] personnel visited Army Map Service on August 24-26. The raw stock double exposure condition reported was traced to a failure of the lift roller solenoid which was replaced.

The dodge circuit board calibration was checked, and two boards were replaced. A film test did not reveal any gross adjustment difficulties; however, a problem may exist when very weak negatives are printed on fast film. The resultant exposure is extremely short and is difficult to control with tungsten filament lamps. A remedial solution may be the addition of a neutral density filter to increase exposure time.

A new eyepiece and reticle were installed into the Pre View and Punch Station, and the latter was recalibrated by [redacted] personnel. Although alignment accuracy was improved, final calibration was not achieved at this time.

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1.3 Plans for Next Period

It is anticipated that acceptance tests will be completed.

1.4 Problems

The outstanding problem is calibration of the Pre View and Punch Station. Methods for improving the precision are being investigated.

1.5 Documentation

There was no new documentation this month.

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 70 mm to 9½" 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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