

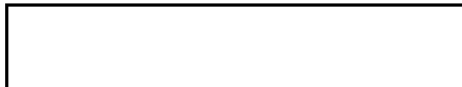
CONTACT DUPLICATING AND RESEAU PRINTER
AND
HIGH RESOLUTION STEP AND REPEAT PRINTER

TWENTY-SECOND
MONTHLY LETTER REPORT

May 10, 1966

Period: 1 April 1966 to 1 May 1966

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NGA Review Complete

TABLE OF CONTENTS

<u>Section No.</u>		<u>Page No.</u>
1.0	<u>CONTACT DUPLICATING AND RESEAU PRINTER</u>	1
1.1	<u>Purpose</u>	1
1.2	<u>Activity of This Report Period</u>	1
1.3	<u>Plans for Next Period</u>	2
1.4	<u>Problems</u>	2
1.5	<u>Documentation</u>	2
1.6	<u>Questions Outstanding</u>	2
2.0	<u>HIGH RESOLUTION STEP AND REPEAT PRINTER</u>	3
2.1	<u>Purpose</u>	3
2.2	<u>Activity of This Report Period</u>	3
2.3	<u>Plans for the Next Report Period</u>	3
2.4	<u>Problems</u>	3
2.5	<u>Documentation</u>	3
2.6	<u>Questions Outstanding</u>	3

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 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 9-1/2" 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

The Pre View and Punch Station Assembly was completed, and preliminary tests indicated a problem in punching thick base Estar films. A problem also existed in illumination of the viewing area within the microscope field when viewing positive film with dark borders. These problems are being corrected, and final adjustment of the microscope reticle is in progress.

The Frame Separation Detector station and chassis assembly have been completed and bench tested. They are presently installed into the printer and undergoing system test.

Initial calibration of the Exposure Control "dodge" circuits was unsuccessful due to photocell crosstalk. A collimating aperture plate has been designed and fabricated and installed over the photocell bank. This has been successful in reducing cell crosstalk to

an acceptable level. Calibration of the individual circuits has been restarted and is presently about 75% complete.

Test films for the Frame Separation Detector have been prepared and are waiting system test in the machine prior to delivery to the customer for evaluation.

The operational and maintenance manual was checked and corrected at [] and returned to [] for final typing.

The spare parts list was prepared jointly with [] and will be delivered on April 25.

1.3 Plans for Next Period

Completion of preliminary tests and initiation of demonstration tests to the customer.

1.4 Problems

Every attempt is being made to maintain delivery schedule, which depends on rapid completion of preliminary test and debug, and rapid acceptance of test films by the customer.

1.5 Documentation

As of 29 March, 1966, test and inspection will start 9 May, 1966 and will be completed 14 May, 1966. Additional dollars for overrun have not been received.

1.6 Questions Outstanding

Rapid acceptance of the test films for the Frame Separation Detector by the customer will be required to maintain continuity of the test program.

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 9-1/2" and in preselected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of This Report Period

There was no activity this report period.

2.3 Plans for the Next Report Period

There are no new plans for the next report period.

2.4 Problems

Outstanding problem is resolution of contract status.

2.5 Documentation

There was no new documentation this month.

2.6 Questions Outstanding

Basis for resumption of Printer 2 activity has not been established.

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