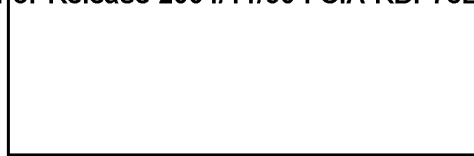


STAT



14 July 1966

U. S. Government  
Washington, D.C.

Attention: Contracting Officer

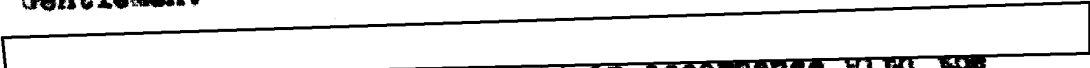
Subject: Task Order No. 03(100,762)65R  
Basic Agreement 

STAT

Enclosure: a) Electrophotographic Processing Techniques  
Monthly Narrative Report for June 1966, two (2) copies


Gentlemen:

STAT



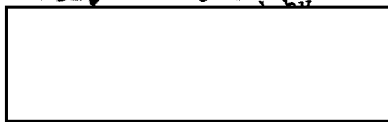
forwards herewith Enclosure a) in accordance with the reporting requirements under Item I of subject Task Order.

We are forwarding three additional copies of the report to the Technical Representative.

If you have any questions on this report, please feel free to contact the writer on 

STAT

Very truly yours,



Contract Representative

STAT

awp

cc: Technical Representative

Declass Review by NGA.

STAT



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ELECTROPHOTOGRAPHIC PROCESSING TECHNIQUES

CONTRACT [ ] TASK ORDER NO. 03(100,762)65-R

Monthly Narrative Report - June 1966

A. Current Status of Work

1. Final Report Preparation

Drafts of all sections of the final report have been prepared. These drafts are now being reviewed, and modifications will be made as required. Copies of transparencies and figures required for the report are also being prepared. Editing and final preparation of the report for publication will take place this month.

2. Electrical-Chemical Processing

Final processing was completed on two frames, No. 46972 and No. 46890 from the AFSPPL film. The former contained light struck areas while the latter contained both clouds and haze over some portions of the ground scene. Several combinations of modulation level, exposure time, and intensity were tried for each of these pictures using the modulated light contact printer. One set of values proved best for both modulation and intensity, but exposure time variations had different effects on different parts of the picture. Processing included generation of positive copies of the scene to compare with the original as well as sample step tablets generated under the same printer conditions as the scene to compare density level changes. The behavior of the step tablets under modulated processing was examined to determine some of the characteristics this type of processing and to help determine the parameters for scene processing.

3. Electronic Processing

The government's technical representative informed  on June 6, 1966 STAT that the replacement high resolution CRT's should not be purchased under the contract for the electronic processor. Consequently, no further experimentation was performed on this subtask during the month. A meeting was held with the government's technical and contracting representatives on June 15, 1966 to discuss the final report write-up on this subtask in the light of the curtailment of experiments. It was agreed that the write-up should include a description of the system and the major hardware modifications made since its initial design, a discussion of the problems encountered (with all equipment developed on the contract), a description of the experiments that were to have been performed, and what information was hoped to be obtained from them.

4. Techniques Analysis

The analysis of the effects of modulated light processing on density step tablets was continued. Mathematically, some of the results demonstrated with the CRT printer were simulated, in particular, the leveling-off and the triangular shape of steps at high densities as shown in microdensitometer traces. Final work was also completed on the comparative use of the simple processor and the contact printer mathematical models for analysis of modulated light processing.

B. Projected Work for Next Month

Complete final drafts of the final program technical report, edit, and prepare the report for publication.



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