CONFIDENTIAL Approved For Release 2002/05/08 : CIA-RDP78B04747A001100030053-9

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January 30, 1969

	Post Office : Fort Davis S				
		D. C. 20020	Declass F	Review by NIMA/DOD	
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25X1A	Attention:				
	Subject:				
	Gentlemen:		_		
	I am pl paragraph 5 d	eased to forward two copies of of Attachment 1 to Amendment	Progress Repo Number 4 to su	rt Number 2 pursuant to bject contract.	
	Approp	riate financial information thro	ough 15 January	1969 is as follows:	
		Total amount availal Expended Invoice 1 (Funds Remaining	ble		25X1A
	8	This amount does include Vouc your technical monitor has dec sarily be further discussion on separate correspondence.	lined to sign off	Am The	25X1A
	Two cop forwarded to t	ies of the Monthly Progress Ro he technical monitor under sep	eport and one co parate mailing.	opy of this letter have been	ı
		ze for the delay in forwarding e available as a result of our s ame time. Future submission			
	I trust the contact me.	is meets all of your requireme	ents. If you hav	e any questions, please	
					25X1A
		GROUP - 1 Excluded from automatic downgrading and declassification			
	REW/dt				

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69-DC-1010-5

PROGRESS REPORT NO. 2

COLOR IMAGE ASSESSMENT
Project 6619

Period: December 1 through December 31, 1968

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PROGRESS DURING THE PERIOD

On the dates of November 22 and November 27, 1968, two sestATINTL
of output data, program documentation and listings were sent to the
customer's facility. The first mailing from contained
the ALPHAF, ALPHAT subroutines and five copies of the final report
generated under the previous effort. Contained in the mailing on
November 27 was the program listing, documentation and example out-
put from the polynomial fit color exposure table generator. Both
packages were returned to because of incorrectSTATINTL
addressing. The packages were remailed via registered mail and the STATINTL return receipts were received by
customer's receipt. On December 18, 1968 both packages were again
TATINTLreturned to mailed to the attention of
It had appeared as though the outer wrapping were removed and the
packages rewrapped and returned. The packages were remailed immed-
iately. It is assumed that they were received by the customer.
Also during this time, five computer tapes were hand carried
to the customer, and a separate cosignment of five computer tapes
was mailed to the customer. STATINTL
On January 2, 1969 four tapes were received by
from the customer's facility. On these tapes were recorded micro
step wedge traces for S.O. 151, 8443, S.O. 121, S.O. 155 and 8442
and a complete set of desaturated wedge traces on S.O. 121 and 8443.
These tapes are currently being utilized in testing the tape decoding
TATINTL program for IBM 360 computer.
The following programs have been made totally operational during
the reporting period.

- (1) ensemble averaging program
- (2) characteristic vector program and computation of scalar multiples

The following new programs and techniques have been generated during the reporting period:

- (1) computation of regression coefficients
- (2) generation of correct color exposure tables for incoming tri-chromatic densities and utilization of the generated tables to yield effective exposures.

A major effort during the last month was the generation of the techniques and program listed under (2) above. The completed program has not been tested, but must await the characteristic vector output to be generated from the desaturated step wedge exposure tables. Testing and utilization of the program should be initiated during the next reporting program.

Complete spectrophotometric information was generated for the 8443 dye set and the direction cosines for this dye set were computed. The 8443 dye set obeys Beer's law as confirmed by the polar plot of the direction cosines as a function of visual density.

WORK PLANNED FOR NEXT PERIOD

Upcoming work includes the operational testing of the ensemble averaging, characteristic vector, regression, and color exposure table generator and utilization programs. Also, experimental design of the MTF phase of the program will be initiated. Generation of the edge and comb function targetry for the MTF program will also be started in the upcoming reporting period.

No major problems exist at the present time.