

ATTACHMENT TO:

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MEMORANDUM FOR: Chief, Technical Services Group, NPIC  
ATTENTION : Chief, Technical Operations Staff, TSG/NPIC  
SUBJECT : TSG/RED Monthly Report for June 1972

A. Significant Items of Interest for May 1972:

1. [ ] NPIC Consultant. A new study has been initiated

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[ ] to investigate visual resolution as a function of exit pupils of sizes comparable to those of microscopes (0.5 mm to 2 mm). Surprisingly, this data is lacking, despite the fact that it is especially appropriate to the design of optical instruments.

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2. Color Exploitation Working Group. RED [ ] personnel assisted in developing a program to systematically investigate the intelligence value of color photography.

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3. IEG SALT Evaluation. RED personnel supported IEG in their effort to construct an imagery rating scale related to the SALT talk agreement.

4. Search Improvement Program [ ] gave a status briefing to the 16 PI's who are acting as test subjects in the Search Improvement Program. The actual search training is scheduled to start in September.

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5. Scan & Search PI Station. A preliminary human engineering evaluation report of the SSPIS (DK-865) was received [ ]

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NRO review(s) completed.

Declass Review by NIMA/DOD

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during June. The operational suitability test for the SSPIS is now scheduled for early September after the device has been relocated in IEG.

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6. Ground Coverage Display Project. This item was initiated with [ ] personnel working in-house on Phase I (detailed requirements definition). This is a parallel contract [ ] also participating.

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7. Mensuration Parameters File for EOI. This project was initiated [ ] This is a short project to be completed this fall.

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[ ]

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9. Automated Image Assessment Study. This study was initiated [ ]

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10. Phase II, Viewing Systems Study. Phase II was completed in June. Phase II reports will be delivered in July and distributed shortly thereafter.

11. 15X Eyepieces [ ] has completed the design for the Zoom 240 Stereomicroscope. The new eyepieces will be fabricated and delivered to NPIC prior to 15 January 1973.

12. 18" x 24" Enlarger/Printer. [ ] has delivered this item to NPIC. A new processing unit has been installed and a

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new enlarging paper is used in the instrument. This equipment will be turned over to IEG early in July for operational evaluation.

13. Phase II, Precise Measurement Study

delivered the final report. A noteworthy item from the monoscopic color mensuration tests on well defined targets states that the accuracy obtained on original or duplicate color films is very close to that obtained on black and white film.

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14. Image Enhancement Process

demonstrated and trained RED and PSG personnel in this process. Additional PSG personnel will be trained in-house and be available for this type work for several days a week over a six-week period.

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15. Color Technology Support

Word has been received that the new test material and chemistry has been shipped and will arrive shortly. It is expected that final machine testing will be completed during July and operational material can be reproduced by the end of August.

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16. Photoscience Support

The final report was received concerning development of highly-saturated color inks for lithographic reproduction. Problems were identified which need to be solved before such an approach results in press-useable inks; however, the feasibility of using dyes--rather than pigments--to produce highly-saturated inks was demonstrated.

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17. Color Equipment Investigation Program [ ] The draft report of the Microcolorimetry Study was received; it indicated that 40 microns is approximately the limit for color specification on [ ] original photography. An interesting result is that in specifying the color of a [ ] image, its chromaticity can be specified much more precisely than its brightness (luminance factor); this is apparently due to the matte particles in the [ ] film. The final report of this study will be published late this month.

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19. TID [ ] The TID was modified to output exact X-Y coordinates where a cloud cover decision is made. Improvement in the accuracy of decisions is expected as a result of corrected coordinate conversion constants.

MEETINGS, BRIEFINGS, ETC.:

DDP/TSD Briefing. On 23 June nine persons from DDP/TSD visited NPIC and were briefed on the equipment that NPIC/TSG/RED has under development. Briefings were given by various RED personnel. The

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visitors were shown [ ] Enlarger/Reader/Printer, the HPSC, the SSPIS, the Color Control Cell, Digital Image Manipulator, Chemical Lab and Optical Lab. They were given a copy of the Human Engineering Design Guide and the Viewing System Handbook.

TRAINING:

NPIC Color Training Program. Discussion was held with [ ] [ ] NPIC Color Consultant, concerning the planned color training session to be held in August. A course outline and schedule was set up and support requirements generated. The course, concerned with the specification of color as needed in the Center, is directed towards technical personnel in PSG and TSG.

PROPOSALS APPROVED AND RECEIVED:

1. [ ] Optical Image Manipulation. The follow-on contract began as of 15 June 1972.

2. [ ] A contract was granted to provide system engineering support to the DIM laboratory in NPIC.

3. Proposals have been received on the following subjects:

a. Mapholders for [ ] Table (6 contractors)

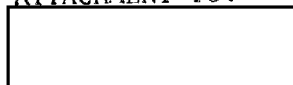
b. Improved Enlarging Paper [ ]

c. [ ] Printer [ ]

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4. The following projects were approved:


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a. Glide Stage for HPSV 


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b. Auto Focus II 

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c. Binocular Magnifier 

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d. Front Projection Investigation 



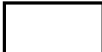
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B. Significant Items of Interest for July 1972:

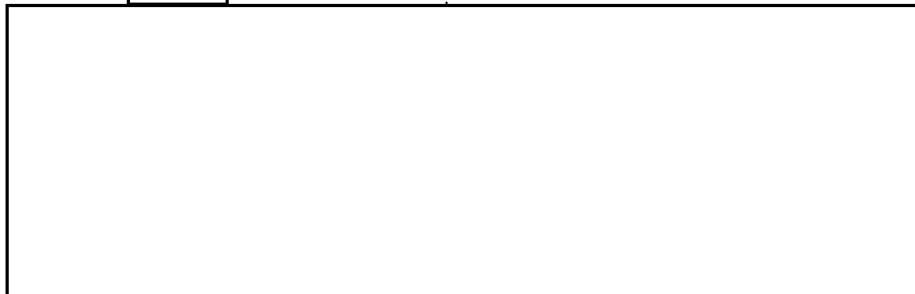
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The  facility was shut down on 7 July to make extensive changes to the hardware and software. The new system is currently scheduled to be completed in September 1972. During this period, operational  work using the  software at ORD will continue.

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