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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION : Chief, Technical Operations Staff, TSG/NPIC

SUBJECT : TSG/RED Monthly Report for July 1972

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A. Significant Items of Interest for July 1972:

1. ☐ Enlarger/Printer. Preliminary tests performed by the project monitor indicate that the new dry silver paper used in this instrument is a vast improvement over the old material. It was hoped that this instrument would be available to IEG for operational testing in July. ESD has encountered scheduling problems and will not be able to test this instrument until September, therefore, it will be October before operational tests can begin.

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2. ☐ Scan & Search PI Station (SSPIS). ☐ is installing the "programmed scan" on the SSPIS. They are also correcting the failures reported by ESD ☐ during the acceptance tests. The SSPIS will be moved into IEG the first week in October for operational suitability tests.

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3. ☐ High Intensity Light Source - has been completed and preacceptance tests will be performed the week of 31 July.

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NRO review(s) completed.

Declass Review by NIMA/DOD

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4. Model II Stereomicroscope Eyeshades [ ] The eyeshades have been delivered. ESD has completed their tests and the eyeshades are presently in IEG undergoing operational evaluation.

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5. [ ] Light Tables. Modifications to the DIA version of the [ ] light tables have been completed. RED and DIA personnel will perform preacceptance tests at the [ ] facility the week of 31 July.

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6. [ ] Image Enhancement. Early results of tests on materials utilizing this process have been very encouraging. [ ] of RB is training additional PSG personnel to use the coating process.

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7. Operational Suitability Test Plan for the Scan & Search PI Station - was received during the reporting period. Present plans call for operational suitability testing on the SSPIS to begin late in the next reporting period.

8. Color Equipment Investigation Program [ ] The Automatic Densitometer and the Microcolorimetry Research Report will be delivered in August. Under the consultation task,

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[ ] visited [ ] to assess their capabilities regarding colorimetric image manipulation; he was quite impressed with the [ ] capability and facility.

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9. Color Difference Program

The contract was

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initiated by SC&PB/SS; initial conversations will be held on 7 August.

10. Color Simulation Photography

Shooting of the

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final set of pictures has begun.

11. National Bureau of Standards. Scanning Electron Microscopy

Laboratory effort was completed at NBS and the final report will be submitted by 4 August. A preview of the reports indicated that a great effort was expended but that striking micrographs of film relief images were not attained. This was due largely to the virtual non-existence of a present art in preparing photographic film surfaces for SEM viewing. Upon receipt of the NBS report, a status report of our probing effort into SEM will be issued.

12.

Process Development

Word

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from [ ] indicates that they have received authorization to proceed with this program. GFE necessary to this project was delivered [ ] on 2 August.

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13. Image Translator Scanner - was separated from the display

console and moved into the clean area. The move separated the Image Measurement Facility from the DIM console. It involved about 17 man-days of GSA support.

14. Optical Image Manipulation

The final report

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on OIM has been received and is being reviewed.

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15. Optical Power Spectrum, Phase III

[REDACTED]

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[REDACTED] presented their scheduled project review and the work statement has been reworded. The essence of the change is an increased emphasis on more thoroughly evaluating OPS as an image quality measurement technique, as compared to the prior emphasis on modifying and testing the TID as an image quality measurement tool and performing associated OPS studies. [REDACTED] of OSP was present as an observer at the project review.

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16. Wide-Field Microscope Development

[REDACTED]

under-

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went a bench test of one complete optical train. On-axis resolution exceeded specifications but some misalignment in certain components resulted in "less than spec" off-axis resolution. After alignment, another test will be performed before proceeding with final instrument fabrication.

17. 30" x 30" Lenticular Screen Development

[REDACTED]

will be

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delayed about two months because excessive vibration conditions at a subcontractors plant (caused by local construction) precluded machining the lenticules in the glass.

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19. Object Recognition Guides [ ] has been extended into Phase II which will prepare Guides for Chinese Order-of-Battle targets. (Phase I produced Guides on Soviet OB targets which are now being used by PI's in IEG and elsewhere.)

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20. CRT Image Quality Assessment Program [ ] Final reports were received.

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21. Study of Storage & Retrieval of Digitized Imagery [ ] Final reports were received.

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22. [ ] Mensuration Parameters Data Storage [ ] The requirements analysis work for the project was performed during July in-house by [ ] personnel. Study is to be completed by early fall.

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23. [ ] Ground Coverage Display [ ] The requirements definition phase of the project was performed by [ ] personnel working primarily in-house. Phase II, an analysis and cost effectiveness study of various potential map display technologies, will be performed [ ]

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24. Digital Mensuration Study [ ] - is progressing as planned. Company personnel are working closely with NPIC photogrammetrists and [ ] to define acceptable image parameters for the study.

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25. Automated [ ] Assessment [ ] The project was

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begun during July at [ ]

MEETINGS, BRIEFINGS, ETC.:

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2. The following groups were briefed on the Color Control Cell:

- a. The Color Exploitation Working Group
- b. EXRAND
- c. Representatives of DIA Photo Facility [ ]

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3. Mr. Lundahl was briefed on the possible deleterious effect on grain size frequency distribution of a photographic film caused by passing the raw emulsion through an exchange purification bed. This was related to a proposal from [ ] to NASA for the manufacture of emulsions in space.

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TRAINING:

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PROPOSALS APPROVED AND RECEIVED:

1. Engineering Support for TID [ ] This proposal has been revised.

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2. Proposals have been received on the following subjects:

a. High Resolution Printer [ ]

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b. Change-in-Scope Scan & Search PI Station [ ]

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c. Change-in-Scope Interactive Stereoviewer [ ]

d. 20" x 20" Light Table [ ]

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PERSONNEL:

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B. Significant Items of Interest for August 1972:

The BG Color Course, to be taught by [REDACTED] of

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[REDACTED] will be given 28-30 August.

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[REDACTED]

Deputy Chief  
Research & Engineering Division  
NPIC/TSG

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[REDACTED]