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MEMORANDUM FOR THE DIRECTOR
OPERATIONS STAFF
13 JUL 1964

TCS-2885-64
Copy 1

13 July 1964

MEMORANDUM FOR: Executive Director, NPIC

SUBJECT : Operations Staff Monthly Report - June 1964

1. General

a. Together with [redacted] of IPD, meetings were held with OSA and NRO personnel to discuss the installation of a secure magnetic tape data link between NPIC and NRO, and NPIC and OSA. This will provide NPIC with the capability to receive ephemeris and camera correlation data on all satellite missions in an expeditious manner from the West Coast for input into our computers, transmit the binary clock readout data to the West Coast for incorporation in the refined ephemeris, receive weather information from WECEN useful in plotting and mission planning, and to provide for receipt of inertial navigational data for input into our computers as soon as it becomes available. The concept was approved and arrangements are underway by the Operations Staff for the installation of the necessary communications equipment (KY-3 and Modems) and by [redacted] for the Univac 1004. This will necessitate the installation of a conduit connecting the Communications facility with the Computer facility.

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b. A meeting was held with the representatives of PSD, CSD, and TID to discuss continued effort in the photomosaic project. It was agreed that the original photomosaics would be filed in PSD and should be used only in emergencies. It was also agreed that: (1) customer service would be provided in the form of minicard prints, minicard film (16mm rolls) or 70 mm film in rolls; (2) PSD would record the photomosaic sheets on 70 mm film; (3) the Assistant for Operations would canvas the community to determine requirements for copies of these sheets; (4) hard copy minicard prints would be provided PID and PAG; and, (5) any copies made of these sheets must be properly controlled.

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SUBJECT: Operations Staff Monthly Report - June 1964

c. Arrangements were made with the TCO and TSO/CIA to print the "hash" marks on NPIC reports in black rather than in multiple colors (similar to the new cover sheets) regardless of the control system used. It was also agreed to eliminate the need for printing a SECRET version of all the cover sheets since the use thereof would be so small that it is just as simple to block out the word "top" on TOP SECRET cover sheets.

d. A revised instruction for the control of documents in multiple security systems was prepared and issued to all staffs and divisions.

e. Several meetings with representatives of DD/S&T, GMAIC, JAEIC, DDI and Security were attended with regard to the release of KEYHOLE information and materials [redacted] No final decision was arrived 50X1 at and the matter was referred for recommendation to the COMOR.

f. During the latter part of the month the Assistant for Operations moved into new quarters and other personnel were moved accordingly. The Program Analysis Branch was transferred to the Assistant for Administration where it became the Management Information Branch under the Chief of the Management Services Staff. New security procedures were developed and implemented as a result of this move.

g. Arrangements were consummated with the Office of Communications for the temporary loan of a communicator who would receive training in our Commo facility during the summer months. This was most beneficial in that NPIC communicators have been heavily taxed maintaining 24-hour operations during the LUCKY DRAGON, YANKEE TEAM activities. It will also permit the regular personnel to take leave and keep up with the increased cable traffic during the heavy collection period in the summer months.

h. A paper was prepared for the use of the Steering Group on the need for statistical data in non-PI production.

i. A history of the URPICs was prepared for the use of the Executive Director in his meetings with representatives of NRO, DIA and CIA to discuss the disposition of the URPICs.

j. At the request of DIA, [redacted] attended a two week 50X1 conference at Randolph AFB, Texas for the purpose of writing a course outline for the USAF's advanced PI school to be established at Omaha, Nebraska.

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SUBJECT: Operations Staff Monthly Report- June 1964

2. Operations Coordination Branch

a. This branch processed 70 national photo interpretation, 43 national non-PI and 179 support/service requirements. (See Annex B for details). The total requirements processed during June is about the same as for May with only a small increase.

b. Much time and effort was devoted to operational liaison and mission movement monitoring. The total number of missions flown during the month decreased somewhat (a 7% decrease) and the total number of feet of film received also decreased by 33,798 feet (a 10% decrease). See Annex A.

c. A total of 193 cables were prepared, processed and dispatched and 705 were received in the NPIC Communications Center, an increase in total traffic over May of 10%. This is the second month in a row showing a decided increase in cable traffic. During the early part of the month, the Commo Center operated on a 24-hour basis because of the heavy traffic of LUCKY DRAGON and [] cables which required immediate acknowledgment of receipt. OCB also received 1527 cables (a 28% increase over May) from the CIA Cable Secretariat which required review for NPIC action and proper routing. 50X1

d. The branch continued to produce daily reports on the status of Missions Being Processed, weekly Weekend Duty Rosters and agenda and minutes of the Advisory Committee. Considerable effort was devoted to the compilation of statistics and data for incorporation in the History of Aircraft Missions which is now under preparation.

3. Program Analysis Branch

a. During the month a large number of statistical tabulations were provided to operating components as to the manhours expended by function on selected projects. These had to be compiled manually since the computer programs will not be available to do them by ADP techniques until July.

b. At the end of the month, this branch was transferred to the newly created Management Services Staff under the Assistant for Administration.

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c. See Annexes C and D for a summary of manpower utilization by component and a summary of project status.

4. Briefing Branch

a. During June, the Briefing Branch provided support daily for a week including evenings until about 2200 hours to the DOD Computer Institute, Flag Course No. 3 sponsored by NAVCOSSACT. This course, under the supervision of [redacted] was a decided improvement over the first two courses with only minor problems arising.

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b. In addition, eight films were shown for the Training Branch/AS in the Geography of the USSR Course and three separate Security Reindoctrination briefings were given in the Briefing Room.

5. Support Branch - PAG

a. This branch continued to provide a high level of support to PAG. The briefing room was utilized on 48 occasions - in 42, audio-visual materials employing the briefing boards or teleprompter equipment were used.

b. Since it was the end of the Fiscal Year relatively few supplies and no equipment was procured.



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Assistant for Operations, NPIC

Attachments:
Annexes A-D

Distribution:
Cys 1 & 2 - ExDir/NPIC
3 - OMLB/MSS/NPIC
4 & 5 - OS/NPIC

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MISSION INPUTS

1 January 1964 - 30 June 1964

ANNEX A
to TCS-2885-64

| | JAN | | FEB | | MAR | | APR | | MAY | | JUNE | | Total for Reporting Period | |
|-----------------------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|------|----------|----------------------------|-----------|
| | Msn | Foot | Msn | Foot | Msn | Foot | Msn | Foot | Msn | Foot | Msn | Foot | Msn | Foot |
| Satellite (usable take) | | | | | | | | | | | | | | |
| KH-4 | | | | | | | | | | | | | | |
| J KH-4 | | | 1 | 38,989 | | | | | | | | | 3 | 100,876 |
| KH-7 | | | 1 | 372 | 1 | 1,284 | 1 | 2,654 | 1 | 2,633 | 2 | 61,887 | 4 | 6,943 |
| TOTAL | | | 2 | 39,361 | 1 | 1,284 | 1 | 2,654 | 1 | 2,633 | 2 | 61,887 | 7 | 107,819 |
| Satellite (non-usable take) | | | | | | | | | | | | | | |
| KH-4 | | | | | | | | | | | | | | |
| J KH-4 | | | | | 1 | | 1 | | | | | | 2 | |
| KH-7 | | | | | | | | | | | | | | |
| TOTAL | | | | | 1 | | 1 | | | | | | 2 | |
| Aircraft | | | | | | | | | | | | | | |
| Cuba | 21 | 143,539 | 25 | 181,558 | 25 | 182,013 | 17 | 108,752 | 14 | 90,319 | 13 | 71,886 | 115 | 778,067 |
| China | | | | | 1 | 11,316 | | | | | 1 | 5,832 | 2 | 17,50X1 |
| Laos/Vietnam | | | 2 | 17,874 | 10 | 69,820 | 6 | 39,446 | | | | | 18 | 127,140 |
| SVN/Laos/Camb. | 1 | 6,234 | | | 47 | 265,843 | 39 | 213,442 | 30 | 170,892 | 22 | 156,146* | 1 | 6,234 |
| LUCKY DRAGON | | | | | | | | | 61 | 70,162 | 64 | 12,291 | 138 | 806,323 |
| YANKEE TEAM | | | | | | | | | | | | | 125 | 82,450X1 |
| TOTAL | 22 | 149,773 | 27 | 199,432 | 84 | 539,624 | 62 | 361,640 | 108 | 339,207 | 100 | 246,155 | 403 | 1,835,831 |
| MONTHLY TOTAL | 22 | 149,773 | 29 | 238,793 | 86 | 540,908 | 64 | 364,294 | 109 | 341,840 | 102 | 308,042 | 412 | 1,943,650 |

*Footage total incomplete due to delay in film arriving at NPIC

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ANNEX B
to TCS-2885-64

REQUIREMENTS ANALYSIS

I. National PI Production Requirements (Includes PI and non-PI Requirements)

| | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> |
|--------|------------|------------|------------|------------|------------|------------|
| CIA | 18 | 8 | 26 | 15 | 24 | 23 |
| DIA | 8 | 2 | 3 | 9 | 7 | 2 |
| NSA | 3 | 0 | 4 | 6 | 21 | 8 |
| NRO | 0 | 0 | 1 | 0 | 1 | 3 |
| USIB | 113 | 78 | 119 | 77 | 56 | 63* |
| NAVY | 0 | 0 | 0 | 0 | 0 | 0 |
| AF | 0 | 1 | 0 | 0 | 0 | 0 |
| ARMY | 0 | 0 | 0 | 0 | 1 | 0 |
| GMAIC | 0 | 0 | 14 | 3 | 11 | 12 |
| SIC | 0 | 0 | 1 | 1 | 7 | 2 |
| SAC | 0 | 0 | 5 | 1 | 0 | 0 |
| STATE | 0 | 0 | 0 | 1 | 0 | 0 |
| COMOR | 0 | 0 | 0 | 0 | 1 | 0 |
| TOTALS | <u>142</u> | <u>89</u> | <u>173</u> | <u>113</u> | <u>129</u> | <u>113</u> |

*Of the 63 requirements, 25 were requirements for PI services and 38 for non-PI services; all, however, were originated in NPIC in direct response to USIB requirements. The breakdown of the requirements for PI services follows:

- 15 First-phase mission reports
- 4 Second-phase mission reports
- 4 Mission Aids (Briefing Boards)
- 2 Detailed reports

Of the 38 requirements for non-PI services all were mission oriented.

II. Support/Service Requirements - Receipts

| | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> |
|------|------------|------------|------------|------------|------------|------------|
| USIB | 0 | 0 | 0 | 1 | 0 | 0 |
| CIA | 174 | 114 | 146 | 119 | 120 | 148 |
| NPIC | 109 | 22 | 27 | 19 | 9 | 14 |
| DIA | 36 | 16 | 20 | 15 | 14 | 8 |
| NSA | 23 | 12 | 12 | 3 | 1 | 2 |
| ARMY | 3 | 0 | 0 | 1 | 2 | 1 |

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KEY [REDACTED]

ANNEX B
to TCS-2885-64 (Cont)

| | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> |
|-------------|------------|------------|------------|------------|------------|------------|
| NAVY | 1 | 1 | 0 | 1 | 0 | 0 |
| AF | 1 | 1 | 0 | 1 | 1 | 3 |
| COMOR | 1 | 1 | 0 | 0 | 0 | 0 |
| NRO | 1 | 2 | 1 | 0 | 2 | 0 |
| AEC | 1 | 1 | 1 | 2 | 2 | 0 |
| SAC | 0 | 0 | 2 | 0 | 0 | 0 |
| WHITE HOUSE | 0 | 0 | 0 | 0 | 1 | 0 |
| TOTALS | 350 | 170 | 209 | 161 | 152 | 179 |

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III. TOTALS - Requirements Processed

| | | | | | | |
|--|-----|-----|-----|-----|-----|-----|
| | 492 | 259 | 382 | 274 | 281 | 292 |
|--|-----|-----|-----|-----|-----|-----|

IV. Analysis of Trends

- a. The National PI production requirements were normal for the month of June. There was a slight drop in total number of submissions which was a reflection of the slight decrease in inputs.
- b. June was a normal month for Departmental Support/Service requirements with CIA continuing to be the Agency requesting the largest amount of support. Once again the Photo Lab received the bulk of the support requests which were photo reproduction orders.

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ANNEX C
to TCS-2885-64

PROJECTS STATUS REPORT

I. National PI Production

| | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> |
|---------------------|------------|------------|------------|------------|------------|
| No. Established | | | | | <u>1/</u> |
| <u>During Month</u> | 85 | 176 | 111 | 106 | 108 |
| No. Completed | | | | | |
| <u>During Month</u> | 138 | 105 | 102 | 60 | 99 |
| No. Cancelled | | | | | |
| <u>During Month</u> | 5 | 1 | 52 | 8 | 2 |
| No. on Hand at | | | | <u>2/</u> | |
| <u>End of Month</u> | 157 | 227 | 184 | 216 | 223 |

II. Support to Departmental PI

| | | | | | |
|---------------------|--------------------|-----|-----|-----------|-----------|
| No. Established | | | | | <u>1/</u> |
| <u>During Month</u> | (Figures for Feb - | 89 | 77 | | 94 |
| No. Completed | | | | | |
| <u>During Month</u> | Mar not available) | 85 | 56 | | 96 |
| No. Cancelled | | | | | |
| <u>During Month</u> | | 0 | 0 | | 0 |
| No. on Hand at | | | | <u>3/</u> | |
| <u>End of Month</u> | (225) | 229 | 252 | | 250 |

III. Non-PI Services

| | | | | | |
|---------------------|--------------------|-----|-----|--|-----------|
| No. Established | | | | | <u>1/</u> |
| <u>During Month</u> | (Figures for Feb - | 60 | 58 | | 60 |
| No. Completed | | | | | |
| <u>During Month</u> | Mar not available) | 56 | 35 | | 57 |
| No. Cancelled | | | | | |
| <u>During Month</u> | | 1 | 3 | | 0 |
| No. On Hand at | | | | | |
| <u>End of Month</u> | (267) | 270 | 290 | | 293 |

1/ Projects received counted for period 30 May thru 27 June 1964

2/ Adjusted after thorough check of records to 216 from 222

3/ Adjusted after thorough check of records to 252 from 250

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ANNEX C
to TCS-2885-64

IV. Analysis of Trends

The number of national PI production projects established during the month remained at about the same level, but the number of projects completed rose considerably (65% increase); since the number of projects completed nearly equated the number of projects established, there was only a minor increase in the number of projects on hand at the end of the month.

There was a sizeable increase in the number of projects established in support to departmental PI (22%) and in the amount of these projects completed (71%), but since the number established and the number completed were about the same little change was noted in the number on hand at the end of the month.

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NPIC/P&DS-111/64

8 July 1964

MEMORANDUM FOR: Assistant for Administration

SUBJECT: Monthly Activity Report

GENERAL STAFF OCCURRENCES:

The 1964 fiscal year closed out with NPIC's R & D effort completing its planned expenditures for this period. Even though [redacted] dollars was expended for programs and projects not anticipated during the preparation of NPIC's fiscal 1964 R & D budget, it was the comment of the Chief of Budget, Programs and Manpower Division that NPIC had the best planned and managed R & D program of any they had worked with in the Agency. Some of NPIC's planned programs were not contracted in FY/64 due to unavailability of funds. These will be submitted early in FY/65 in order not to incur additional delays. However, money required for these deferred items will decrease the amount available for the fiscal 1965 anticipated R & D program.

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Planning was re-initiated by the Assistant for Plans and Development for a prototype equipment test and evaluation area in NPIC. Work had been done previously to define this problem with DMJM, but such an area failed to materialize in Bldg. 213 as the building was completed.

[redacted] ex-chief, Graphical Analysis Branch, Publications Division, reported on duty this month as Executive Officer, Plans and Development Staff.

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Training and vacations cut heavily into available man power and this situation is expected to continue through August. [redacted] attended the Agency Management course for one week at [redacted] and [redacted] attended the Civil Service Commission Seminar on "Effects of Technological Development" at King's Point, New York for two weeks. [redacted] entered on duty at the beginning of the month.

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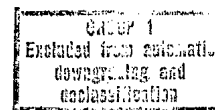
50X1

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Activity increased regarding the DIA nomination of a Deputy Assistant for Plans and Development.

The Plans and Development Staff FY/65 T.O. breakdown was submitted to the Assistant for Administration, based on a total Staff strength of [redacted]

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Additional activities of the Assistant for Plans and Development during the month included:

| | | |
|-------------|---|--------------|
| 1 June | - Met with [] Itek, concerning plans for their Alexandria, Va., Data Analysis Center. | 50X1 |
| 3 June | - Attended briefing of [] Optics Panel, re proposed programs. | 50X1 |
| 4 June | - Travelled to Rochester, N. Y. to attend discussion of proposed new S/I camera. | |
| 8 - 12 June | - [] contract technical assistant, at NPIC all week for consultation. | 50X1 |
| 9 June | - Met with [], DD/S&T about plans for forthcoming meeting of Image Quality Evaluation Committee. | 50X1 |
| 10 June | - Met with [] about their contract. | 50X1 |
| 11 June | - Briefed [] Optics Panel, on proposed programs. | 50X1 |
| 12 June | - Met with [] about potential conflicts of interest by []. | 50X1 50X1 |
| 15 June | - Met with [] Optics Panel, about image re-construction techniques. | 50X1 |
| | Met with [] about P. I. Performance Effort. | 50X1 |
| 17 June | - Met with [] Itek, re proposed systems. | 50X1 |
| 18 June | - Discussed proposed programs with [] [] LMSC. | 50X1 50X1 |
| | Met with [] FMA, about current contracts. | 50X1 |
| 19 June | - Met with [] to discuss capabilities of Farrand Optical Co. | 50X1 |
| 26 June | - Attended budget hearing at Headquarters. | |
| 30 June | - Met with [] Itek to discuss side-looking radar problems. | 50X1 |

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DEVELOPMENT BRANCH

The primary effort during the month was devoted to assisting the Procurement Division, Office of Logistics, in formalizing contracts and clarifying technical issues raised at Procurement Evaluation Committee Meetings and in discussions with contractor's representatives on the details of work to be accomplished under new development contracts. Contracts were prepared for all projects except two programmed for FY-64 prior to the end of the year. Only the rental agreement for an Electracolor printer-processor (MMM) and the contract for the development of the HTA-6 processor (Houston-Fearless) were deferred until FY-65.

The pressure of this primary effort left little time for the implementation of the more formalized accounting and reporting procedures envisioned for the branch during June. However, the improvement of management practices is of continuing concern to the branch and will be pursued with vigor in the coming months. Progress was made in defining the function of requirements and phasing in of a centralized equipment maintenance operation. The staff study on maintenance is in preparation and is expected to be presented for approval in mid-July. Listed below are statistics relevant to Branch operations during June:

| | | | |
|--|-----------|---------|-----------|
| 1. Project Status | Initiated | In Work | Completed |
| Major (more than 40 man hours) | 1 | 81 | 0 |
| Minor (less than 40 man hours) | 4 | 2 | 2 |
| 2. Research and Development Objectives | | | |
| In work | 0 | | |
| Completed | 1 | | |
| 3. Proposal Status | | | |
| Received | 7 | | |
| In work | 18 | | |
| Rejected | 2 | | |
| Accepted | 2 | | |
| 4. Project Approval Requests | | | |
| In work | 0 | | |
| Completed | 1 | | |
| 5. Contract Status | | | |

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5. Contract Status Continued

| | Number | | 50X1 |
|-------------------------|--------|----|------|
| Pending Obligations | 23 | \$ | |
| Contracted this Month | 11 | | |
| Contracted this FY-64 | 63 | | |
| Completed this Month | 2 | | |
| Current Total Contracts | 50 | \$ | |

During the month there was 30 conferences held with government and industry representatives consuming 81 man hours of branch time. Notable among these conferences were the presentation of the Air Force development program for reconnaissance and the complete review of the projects in work under the Eastman Kodak AL-14 Contract.

Travel was again heavy in June due to an effort to ascertain the status of development under existing contracts and to assure that new contracts were started off in the intended direction. In addition, new technological discoveries were reviewed for application to NPIC's requirements. Following are listed the trips made and their purposes:

3 June - [redacted] visited Optomechanisms, Inc. 50X1
in Plainview, New York, to inspect and run final in-plant acceptance checks on the Stereo Chip Comparator.

8 - 9 June - [redacted] visited Eastman Kodak in 50X1
Rochester, New York to monitor seven PARs under Contract AL-14.

8-- 11 June - [redacted] visited Data Corporation 50X1
and discussed photometric instrumentation for camera operation evaluation. He also discussed the same subject at ASRNR -
Wright-Patterson AFB, with [redacted] On the 10th Mr. 50X1
[redacted] visited ACIC, St. Louis, Mo. On the 11th he visited 50X1
Eastman Kodak for review of AL-14 projects.

8 - 11 June - [redacted] had a conference with 50X1
[redacted] of Eastman Kodak to discuss 50X1
Contract AL-14.

9 - 10 June - [redacted] visited Optomechanisms on the 9th 50X1
to assist [redacted] in monitoring the Point Transfer Device, 50X1
Model 552 and associated 552A Stereoviewer contracts. On the 10th
he visited Eastman Kodak to assist [redacted] in monitoring three 50X1
projects under Contract AL-14.

9 June - [redacted] accompanied [redacted] to Optomechanisms 50X1
to monitor the Point Transfer Device (Model 552) and associated 552A
viewer contracts.

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10 - 12 June - [] visited Eastman Kodak to monitor progress on two projects under Contract AI-14. On the 12th he visited Bausch & Lomb to monitor progress on the Panoramic Stereoviewer and the Variable Magnification Tracing Projector and to discuss changes on the production model High Power Stereoviewer. 50X1

11 - 12 June - [] visited Houston-Fearless Corp. to see [] to finalize design and configuration of Clean Room space prior to contract negotiation and to assist Station 954 in negotiating this contract. 50X1

16 June - [] visited the GE Advanced Technology Lab in Schenectady, New York to witness a physical demonstration of the "Hologram" concept to facilitate a collective evaluation of the GE concept for its potential in automatic PI applications. The object of the visit was to evaluate the possible contribution to the state-of-the-art that may accrue from an R & D effort by GE in this area. 50X1

22 - 27 June - [] visited Consolidated Systems on the 22nd to see a demonstration of photographic systems under development in the Bell Laboratories. On the 23rd they visited Aeronutronics (Division of Ford Motor Company) to discuss image recognition systems. The 24th they visited the Pickett Corporation and Te Corporation, Santa Barbara, California, to establish company capability and determine progress on a new PI slide rule. The 25th they visited the Houston-Fearless Corporation to establish the technical details for the processor research program. On the 26th they joined [] at Houston-Fearless in Los Angeles to discuss the chip processor, chip printer compatibility, and chip storage and retrieval. 50X1

22 - 27 June - [] visited the Richardson Camera Company to monitor contracts on viewers and readers on the 22nd. On the 23rd they visited [] to review the status of contracts in progress and under negotiation with Nuclear Research Instruments. On the 24th they visited NRI to review progress on Contract 934 and the Varyscan Viewer. On the 25th they visited Telecomputing Corporation, Electronic Systems Division, to review progress on the Linear Phasolver. They also visited Consolidated Systems to review progress on the development of a fluorescent screen. On the 26th they joined [] at Houston-Fearless to review the chip processor concept for compatibility with the chip printer and work being done on automatic and semi-automatic storage and retrieval. 50X1

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23 - 24 June - [] visited the University of Rochester for transfer of monitorship of the aspheric lens contract. This trip required for orientation, monitoring continuity, and project status check for the last quarter. 50X1

29 - 30 June - [] visited Goodyear Aerospace Corporation in Akron, Ohio to discuss the "Change Detector" Contract 723. 50X1

PLANS BRANCH

[] continued work on a re-draft of a staff study concerning the objectives and functions of the Technical Development Committee and the Joint Procurement Committee. The results of this study should be forthcoming shortly. 50X1

Further consideration of the P&DS Staff Study "Advanced Planning Concept for Technical Development" is being held up pending receipt of comments from two components.

[] began a long range program to provide the NPIC with planned courses of action in the event of the necessity of establishing small NPIC type operations outside of the continental limits of the U. S. 50X1

[] held several meetings with NPIC and Eastman Kodak representatives to devise a means of titling the film used in a new photo reconnaissance system. An apparently acceptable method was found, and further work is being carried on. 50X1

[] separately requested PAG and PID to devise a method of using the Universal Photo Coordinate Reference System with a new film format that contains no fiducial marks and no reference marks. A solution is necessary before the film can be exploited. 50X1

[] conducted a briefing on Air Force reconnaissance systems for a group of selected NPIC representatives. 50X1

DD/S&T/OSA is sponsoring the initiation of a new field of overhead reconnaissance. A contract has been let, and [] was named alternate project monitor. This represents considerable progress for NPIC since it gives us the valuable opportunity of coordinating the acquisition capabilities with the exploitation capabilities and of feeding exploitation experience and objectives back into the design of the new system. [] is closely monitoring developments of other new photographic reconnaissance systems in order that appropriate Center components can be advised as early as possible. 50X1

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Agreements were obtained from PAG, PID, Army/SPAD and DIA/DIAP-1P to participate in the exploitation testing of Project HISPEC (High Altitude Spectralzonal Photography). [] notified the project manager and offered suggestions generated by the NPIC. This is one of five activities in the field of Color Photography that are currently being coordinated by [] Color Photography in one form or another appears to hold the most promise to photo interpretation of any of the "special sensors".

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Action has been initiated by the Plans Branch on a Staff Study concerning the origin, use, and control of chips in the NPIC. It is important that the problems be solved and procedures for production and control of chips be established before the Center embarks on the production of standard chips.

A meeting was held between Itek and P&DS representatives to discuss an Itek/OSA Project for the production and exploitation of side-looking radar imagery. This project permits the NPIC to participate in the R & D phases of radar imagery acquisition and exploitation and provides the lead-time needed for the development of exploitation equipment. [] is coordinating the action between Itek/OSA and NPIC.

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[] is working on the first draft of a staff study on the security aspects of the cover currently being used by the Plans and Development Staff.

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EXPLORATORY DEVELOPMENT LABORATORY BRANCH

[] completed his investigation of the heating problem in the Richardson Viewer, and by suitable modification was able to drop the temperature as much as 70°F under some operating conditions from a maximum of 204°F. By utilizing a small blower mounted on the rear of the viewer, and with a minimum of modification to the equipment, the heat generated by the presence of a 9-inch film in the platen can be held within reasonable limits. It is felt that a further drop in operating temperature must be achieved by a basic equipment re-design. A report on this project will be issued during July.

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[] completed his literature search on adjacency effects in photographic materials. To accomplish this, he visited the libraries of Kodak Research Laboratories, Rochester Institute of Technology, and the George Eastman House in Rochester, New York, where he spent approximately three days. Additional time was spent in the NPIC and Langley libraries completing this search. Preliminary experimental considerations have been based on the search, and [] has begun design of some special processing equipment necessary for the precise control required for these investigations.

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[redacted] while at Eastman Kodak, also consulted with members of the Photofinishing Division about the problem of contamination of solutions in the tank farm which was reported last month. Topics discussed were sulfurnization of hypos, control of processing solutions, and so forth. These discussions confirmed the observations made in the last report.

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The project on film-splice testing, assigned to [redacted] last month, was continued; a literature search was undertaken, and a tour of PSD/PLB was made to look at the film-handling equipment. A preliminary report was issued to the Development Branch for their immediate use. In the light of other requirements, it is not expected that any time will be spent on this project during the month of July.

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At the request of the Minicard Section of CSD/ADP, [redacted] tested some Minicard film lubricant samples for wax content. The two samples were supposedly the same, but apparently evaporation from one had increased the relative wax content by approximately 7%. Since this is of the order of the normal manufacturing tolerance, it was not held to be serious.

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[redacted] also spent approximately ten hours in preparation for training personnel of the Quality Control Staff, PSD/PLB, in chemical control operations. The usefulness of this program should be realized within several months.

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[redacted] in company with a representative from the Publications Division, made some preliminary evaluations of the new high resolution Kalvar material. A delay in this program has been caused by the unavailability of film and equipment from Kalvar, but the project is still active and will be completed when sufficient material is available for complete evaluation.

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[redacted] prepared a study on the TID "clean room" problem. This culminated in a memorandum to the Chief, TID, which recommended procedures for maintenance of "clean" areas. As no reply has been received, it is not known whether any or all of the recommended practices are to be adopted. P&DS will defer purchase of particle size counting equipment until its need is more urgently indicated.

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[redacted] began a project to evaluate the several methods of optical focussing for high-quality enlargements. This project was undertaken to determine if there is a method available which is superior to eye judgements in focussing, and to establish the pertinent statistics. It is believed that if a significant improvement can be made, it should be incorporated in present equipment. Useful results will be made known to PSD when available.

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[redacted] continued work on the development of
 photographic phase gratings. [redacted] visited Diffraction Limited,
 Inc., of Bedford, Mass., early in June to test an experimental crossed
 grating in the breadboard model of the virtual image viewer. These
 tests proved highly successful, and the gratings definitely are
 feasible for use in the viewer. A second visit was made at the end of
 the month to provide that company with two gratings for experimental pur-
 poses. These represented a decided improvement in quality and dispersion
 over the one tested in early June. A mathematical analysis of the Fraunhofer
 Pattern produced by such gratings was furnished by Technical Operations,
 Inc. The analysis confirmed the non-analytical conclusions reached about
 the physical behavior of the gratings under coherent illumination and
 provided an indication of the actual groove-shape. The phase gratings
 have excited several industrial firms. Those who have been trying to
 develop them have shown enough particular interest in their manufacture
 to indicate that they do not have the process to equal that developed
 in our laboratories. In view of this, a Record of Invention was
 forwarded to the CIA Patent Board, via [redacted] DD/S&T. A
 Suggestion Award Form will be submitted in the early part of July
 recommending the use of these gratings in the virtual image viewer.

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[redacted]
 Assistant for Plans and Development

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