NPIC/TSG/		*	25X1
13 October	1970		

MEMORANDUM FOR: Chief, Technical Services Group, NPIC

SUBJECT : Projects & Programs Staff Monthly Report - September 1970

- A. During September, the Projects & Programs Staff conducted staff functions for TSG [including 1) administrative and support services for the Group, 2) continuous control and coordination of all TSG requirements and work orders, 3) working level liaison contact with PPBS on budget matters, and 4) with PSG on production matters] and was also involved in the following actions:
 - 1. Provided TSG representation at the NPIC Training Selection Panel on 15 September.
 - 2. Prepared documentation and coordinated activities for the TSG Career Panel that convened on 24 September to complete CER's for GS-13's.
 - 3. Provided for the regular and special EXRAND meetings. Arranged field trip to _______ and ACIC, St. Louis, Missouri. Special meeting held on 30 September conducted to consider the status of NRT and its relation to exploitation research and development.
 - 4. Provided the executive secretary for a joint RED-Contractor meeting that convened at the "Plantation" to discuss the future of nonconventional imagery.
 - 5. As Budget Officer for TSG, organized a team of Division representatives in preparation for the FY-73-77 Five Year Plan and other budget exercises.
 - 6. Maintained constant coordination with PPBS/RAD, IEG, and PSG in an effort to establish new channels for handling requirements and work orders since the PMB has stopped meeting.
 - 7. Arranged for a series of tours to acquaint new TSG personnel with Center operations and resolve questions regarding inter-Group activities. Also arranged and coordinated briefing and tours of TSG, including visitors from the

DECLASS REVIEW by NIMA/DOD

GROUP 1
Excluded from automatic downgrading and declassification

25X1

25X1

25X1

25X I

SUBJECT: Projects & Programs Staff Monthly Report - September 1970 >

8. Acted as coordinat	ting office for the Group in Build-
ing studies of parking prob	blems and reallocation of parking
spaces. Performed various	coordination activities in connec-
tion with the modification	of including scheduling
TSG escort duty.	

25X1

- B. During October the following significant actions are anticipated:
 - 1. Complete the Foreign Travel Prediction report for submission to the DDI.
 - 2. Analyze and report on domestic travel and training expenditures and estimates through November.
 - 3. Arrange the TSG Career Panel meeting to convene on 27 October.
 - 4. Coordinate with PPBS in directing TSG budget planning, including initial Group preparations for the FY-73-77 Five Year Plan.
 - 5. Arrange for appropriate representation in the imagery exploitation community to hear briefings on the NPIC "chip" position and the latest results of the development in "Free Radical," a dry process system; the information will be dissemminated through a scheduled EXRAND meeting.

Acting Chief,
Projects & Programs Staff, NPIC/TSG

Distribution:

Orig. - Addressee

- 2 NPIC/TSG/PPS
- 1 NPIC/TSG/APSD
- 1 NPIC/TSG/ESD
- 1 NPIC/TSG/RED

5X1		A Royal Market San Comment of the Co	
	Aŗ	oproved For Release 2005/06/08 : CIA-RDP78B05171A000800030008-1	•
		ATTACHMENT to:	25X
	MEMORAND	UM FOR: Chief, Projects & Programs Staff, TSG/NPIC	
	SUBJECT:	APSD Activity Report for September 1970	
	l. occurred	The following items of significant interest in the APSD during September 1970:	
		A. Administrative	
	•	(1) In-depth discussions on division missions, functions and operations were held with (PSG) from 14 through 30 Sept., and will continue through 9 October.	25X
5X1		(2) departed the Agency on 28 Sept. to enter the School of Law at Ohio State University, Columbus, Ohio.	
5X1		(3) began the Center-sponsored photogrammetry course on 21 Sept. The course schedule is 0800-1100 on Mondays and Wednesdays for 12 weeks.	
5X1		chemistry course at the Charles County Community College in LaPlata, Md. The class meets Monday, Tuesday and Wednesday nights for the next three months.	te.
5X1		traveled to Norfolk, Va. on 9 Sept. with an Agency group for a one-day, first-hand refresher course on radar interpretation. The presentation was given by in the Intelligence Operations Center aboard the USS John F. Kennedy.	25X ²
		B. Exploitation Support	
		(1) Interpretation	
•		(a) The breakdown team sclected 27 frames for special high contrast duplication (SO-369/6451) on In addition,	25X ²
CROU Excluded from downgrad declassi	ni automatic) Ar ling and	pproved For Release 2005/06/08 : CIA-RDP78B05171A000800030008-1	

2		∇
_	ວ	М

ΔTTA	CHMENT	to

SUBJECT: APSD Activity Report for September 1970.

25X1

the Middle East. coverage received high contrast printing.

- (b) The division completed for Army/SPAD, a set of Micro-d raster scans of a "DISH" by a TRY ADD facility to determine if objects are obscured in shadow.
- (c) Support of the Army/SPAD's request for isodensity traces of TRY ADD "A" Building Antenna at launch Complex D, SSMTC, was completed this month.
- (2) Photogrammetric, Statistics and Investigations
 - (a) To provide report preparation support to the COMIREX VHR Committee, the division prepared, at a common scale, 25 mathematical best-fit curves relating EEIs and Resolution. Also to be prepared is a cumulative curve of all of these systems. The basic resolution/EEI input data was provided by representatives of the VHR Committee.
 - (b) In support of a highly sensitive DDS&T project, the division has written and tested two analytical photogrammetric math models. The data reduction is to be accomplished in-house and the results are to be transmitted, informally, directly to DDS&T with no other dissemination.

(c) In support of the stereo scanning
utility study, where is to obtain in-
formation for a management decision concerning
the continuation of the automated stereo
development, we have prepared for
differential scale and distortion data. This
data consists of generated pan coordinates
from a plain ground grid as viewed from
various scan angles and at selected focal
lengths.

25X1

25X1

25X1		
20/(1	Approved For Release 2005/06/08 : CIA-RDP78B05171A000800030008-1	-
	ACHMENT to:	25X1
	SUBJECT: APSD Activity Report for September 1970	
		•
	C. Collection System Support	
	(1) Operational Activities	
25X1	(a) The division received a requirement from the NRO to assist in publication of their Concept of Operations Manual. With the assistance of PSG components, this document was reproduced in some 200 copies and returned to the NRO for distribution to the Community. Ten copies were requested for NPIC internal distribution.	
	(b) Division personnel were involved daily in the Program providing information to WFIC components on mission status, camera data and film arrival time. Many hours of overtime were required during the month to stay abreast of this high priority and satisfy the informational needs of NPIC officials.	25X1
25X1	(c) A statistical report on the square nautical miles covered by the KH-4 system from (FY 65) to the current date was furnished to	25X1
	(d) The receipt of only one copy of the newly revised Reports Control Manual by NPIC was noted. The division quickly arranged for six additional copies of this manual from the NRO, including two additional for the APSD.	25X1
25X1	(e) The increase in mission activity of the Program was supported closely during the report period. Liaison activities with the IEG component responsible for readout of these missions was maintained and continues daily as of this report. A special cable addressee header was established,	

25X1

25X1

25X1

sented in tabular form to

targets on

23 Sept.

25X1

similar data for the non-priority targets

This data was pre-

stated he may require

25X1

SUBJECT: APSD Activity Report for September 1970

(j) Initial phase handling support was provided on nine missions during the month. In addition, detailed evaluations of each mission are being provided to OSA. Support is expected to continue during the month of October.

25X1

25X1

(k) A substantial increase in mission activity occurred during the month. Eleven missions were evaluated in September compared to two in August. System-related problems were exhibited on several of these missions indicating that two of the three camera units at OL-19 need refurbishment.

a manufacturer representative at OL-19, visited the division on 18 Sept. to examine the material and discuss the problems.

(1) Density profile data plots were generated for the exposure/filter evaluation of KH-4 Data plots were provided to West Coast Programs Office, during his visit to IEB on 18 Sept. A follow-up message was forwarded to the requester certifying delivery of the data to The project is complete.

(2) Support to R&D

- (a) The division reviewed the draft of a memorandum which described the Development Objectives for the proposed Color Control Cell. A memo containing relative comments and suggestions was forwarded to TSG/RED on 23 Sept.
- (b) Work on the VHR follow-up study for the DIA has been completed. The project remains open, however, in the event that additional support is required.

25X1		·
	Approved For Release 2005/06/08 : CIA-RDP78B05171A000800030008-1	
	ATTACHMENT to:	25X1
	SUBJECT: APSD Activity Report for September 1970	
	2. The following significant items are anticipated for the month of October:	
25X1	A. Ten men from IEB are tentatively scheduled to visit the facilities, the week of 12 or 19 October.	25X1
25X1	B. will contain approx. 500 feet of color. In addition, the optical titler may be used to title the black/white portion of the mission.	
25X1	vill attend the Advanced Management Seminar at on 12-16 October.	25X1
25X1	and are tentatively scheduled to attend the Maintainability and Reliability course in the DDS&T area at Hqs. during the week of 5 October.	
25X1	E. will attend a meeting on the West Coast concerning the Mission Parameter Report Content.	25X1
25X1	F. Installation and testing of new optics for the 1032T will be accomplished during the month.	
25X1 25X1	visit the on 9 October.	25X1
25X1 25X1	plan to attend the in-house optics refresher course by on 22, 23, 29, and 30 October.	25X1
		25X1
	Chief, Applied Photo Science Division, TSG/NPIC	

: ESD Monthly Report for September 1970

MEMORANDUM FOR: Chief, PPS

SUBJECT

TSG/ESD-068/70 8 October 1970

	A. Noteworthy Events	
25X1 25X1	Automatic Target Indexing Device - A Test Plan for this device has been written and was distributed on 11 September. on 15-18 September for scheduled pre-acceptance demonstration. The ATID was inoperative due to computer malfunction at that time.	
	2. Experimental Dry-Silver Processors - Modification to 1st Floor T&E spaces have been completed. The Dry Silver 10" Sheet processor & 40" Paper processor were delivered on 21 September. Preparation for their testing is virtually complete.	25X
	3. Screen Materials for Light Tables - An additional material was received in TEB and tested. A report supplementary to that written in August was written and distributed by ESD/TEB-032/70).	25X
25X1 25X1 25X1	4. 6x6 Twin Stage Comparator - The TSC was modified by on 15 & 16 September. A memo report (ESD/TEB-031/70) was written by on 28 September concerning the results of this modification.	•
	5. Optical Testing Study - personnel were in-house on 2 September to discuss this contract.	25X
25X1	6. 1540 Light Table - Preparation for testing the 1540 Pre-Production model continues. The Acceptance Test Plan (Preliminary) was reviewed with EPB. As a result, an EPB Acceptance Test Plan was written and has been forwarded to by RED.	25X
25X1	7. Emergency Maintenance Service - The Equipment Performance Branch received 88 requests for miscellaneous emergency service during September. Approximately 64% were electronic type, 25% mechanical and 11% optical. These requests by operational components are:	
	IEG 314 Army 8 PSG 30 TSG 3 DIA 12 IAS 1	

SUBJECT: ESD Monthly Report for September 1970

25X1

25X1

25X1

25X1

	uments were serviced ignment, and replace cations were made as	. This inc	ve Maintenance progra luded cleaning, repair sing or malfunctioning These actions by	
IEG DIA PSG	136 105 9	Army TSG IAS	3 2 1	
9. Modification tion, design, and fa components including	brication projects w	eation Proje vere complet	ects - Nine modifica- sed in support of Cente	er
(1) Design, cutter and splicer f	fabrication, and as	ssembly of a	a special prototype fil	l.m
المحالم مستحد المستحد المستحد المستحد المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد المستحدد	ata anlargements '	These hollae:	ing board holders for rs are to be used by II d the Director, NPIC.	ΞG
(3) Fabrica	tion of 25 special s Display Uni EPB's cost averaged	size plasti t Keyboard	c templates for use in functions for various compared with	25 <u>%</u> 1 25X1
(4) Miscel	laneous Projects		,	
September. The remo	elve new IIS remote ote equipment includ rs and three (3)	ed (7) Tele	re installed during type printers, two (2) y Units.	25X1
cases, causing rust	to form on the lens	s attachment Lying case w	a few Zoom 240R carryiss. has has the pod and attach	25X1
to fo delayed pending arr	r image rotation modival of packing mate	lification. erial from	pods is now being shi The shipment had beer coperational component	25X1
10. The followi	Zoom 240R Po Widespan Rho	od omboids	30 30 60	

Approved For Release 2005/06/08: CIA-RDP78B05171A000800030008-1

.5X Mono Lenses

1X Rhomboid Lenses 2X Rhomboid Lenses

60

60 30

SUBJECT: ESD Monthly Report for September 1970 attended the non-conventional photographic 25X1 11. materials seminar. 25X1 are attending the "Probability Theory & Statistics" course currently being given at NPIC. entered on duty as a Co-op on 8 September for a 25X1 13. initial tour. This is 25X1 3-month tour. returned to school after his 3rd Co-op tour on 25X1 24 September. to inspect Contrast 25X1 25X1 visited 15. Enhancer on 23 September. 25X1 25|X1 accompanied | 31 August - 1 September to assist in testing and inspecting the Advanced Stereo Rhomboid prototype. completed his summer intern program and returned 25X1 to the University of Maryland. a Georgia Tech student, began his second 18. I 25X1 Co-op period in EPB. Co-op student previously assigned to the Test & 25X1 Evaluation Branch has been dropped from the engineering curriculum at the University of Akron due to unsatisfactory grades. He will not return for his next work term. completed a 32 week course on maintenance of Photon 25X1 20. type setting equipment. B. Anticipated Events for October 1970 1. Pre-acceptance demonstration of ATID is re-scheduled at 25X1 for the last week in October. 2. Inspection of the Pre-Production model at the manufacturer's 25X1 plant is scheduled for 26-29 October. High Precision Stereocomparator should 25X1 3. The Test Plan for the luebe delivered on 12 October for review 25X1 Chief Engineering Support Division, TSG

Approved For Release 2005/06/08: CIA-RDP78B05171A000800030008-1

Distribution:

Original - Addressee

3 October	1979
C207 4	

MENOR MEAN FOR: Chief, Tochnical Services Group, NFIC

TENTION

: Chief, PPS/TSG

BILL

: NED Mantily Report on Significant Events

(September 1970)

. Significant Items of Interest for September 1970:

- 1. EOI Evaluation Effort. HFS/ATB personnel have been engaged in dealgning and assisting in the execution of a simulated BOI evaluation effort for GEP.
- 2. Imagery Interpretation Research Progress. The FY-69/70 Imagery Interpretation Research Program expired on 24 August. extensive series of briefings on research findings will be offered Center personnel during October. The FY-71 contract was successfully negotiated on a leptember.
- 3. Evaluation of Monaell Color Chips. ATB personnel have completed a preliminary evaluation of the use of opaque Munsell color chips to describe the color of filters as mean in a microscope. Intersubject variability was found to be so large as to recommend against the use of Hansell chips for this application.
- report on Colori-. Colorimetric Messurement Report. metric Measurement of 30-242 has been released within MPIC.
- Report. The final report on The Chemistry of Mon-Silver Ballde Photographic Processes" has been received from It covers the dry silver and RS processes and is very
- 6. Image Manipulation Research Facility The input scanner and video display output were given initial acceptance tests on 7-8 September; both failed. Corrective action is being taken-the new acceduled delivery date is 2 November 1970.

25X1

GROUP 1 Excluded from automatic downgrading and declassification

25X1

25X1

Approved For Release 2005/06/08: GIA-RDP78B05171A000800030008-1

25X1

25X1

25X1		
	Approved For Release 1005(16718): CIA-RDP78B05171A000800030008-1	
	USEASCT: RED Montbly Report on Significant Events (September 1970)	25X1
	and and any and	
·	7. Photographic Image Manipulation (Ring Smear, IRM). In-house ring smear experiments have begun in a cooperative effort with the Photo Lab, PSG. Initial work will be concerned with mounting the ring smear device on the BPE. Tests on positive transparency and paper materials are planned.	
	3. Power Spectral Density - Quality Measures The first successful tests on subjectively graded, operational imagery were completed. Further testing on a greater variety of images is necessary and underway; the prognosis is encouraging.	25X1
25X1 25X1	ossembly as it was when stopped work on it. The engineering audit is now in progress and is on schedule.	25X1
	10. Automatic Target Indexing Device . The system has been assembled and is undergoing final shabedown and adjustment. While the general analysis mode is operating satisfactorily, there have been problems with the target indexing mode of operation. These problems were related to the Homeywell DDP-516 controlling computer and a timing/synchronisation difficulty. At this point, the computer problem has apparently been solved and considerable progress has now been made on the timing/synchronization difficulty.	25X1
	An additional problem, which will cause a delay in delivery of the TID, is that the replacement transform leases will not be delivered (by the subcontractor) early in October as anticipated, but will arrive during the latter part of October. These leases have been on order for several months. The leases presently installed in the TID perform less than optimum; due to improper coatings, they are producing some unwanted spurious effects.	
25X1	The aforementioned problems and the resultant delivery delay will result in an additional overrow, the magnitude of which cannot be precisely determined at this time but is estimated to be between	
	a revised oldpoing date of 6 November appears to be realistic	

25X1		
	Approved For Release 200 5/05/05/05/05/05/05/05/05/05/05/05/05/05	
	7C3-8L27/70	
	SEBURCT: RED Hontaly Report on Significant Events (September 1970)	
	in a stop-work status. Regotiations were hald atin late Geptember and agreements were reached regarding fixed ceilings on overhead and GMA rates and the cost to complete the instrument were negotiated on a cost-sharing basis. Work is expected to resume about 15 October with delivery anticipated at the end of March 1971.	25X 25X
4	report on the Chip Implementation Study Program . The Phase I report on the Chip Implementation Study Program has been reviewed. The recommendations to the ExDir/MPIC are that MPIC not proceed with Phase II and that the contract be terminated	25X 25X
	1). Scan & Search PI Station. The final report for the design of the Sean & Search PI Station has been received and is being evaluated. The design drawings are in shipment and should arrive at MPIC by mid-October.	
25X1	gave a progress report on the 1540 tables to MPIC and other interested organizations. The estimated delivery of the first table has slipped about 3 weeks, from 5 to 26 October. However, the first 145 units are still to be delivered on schedule by 1 January 1971.	
25X1 25X1	to verify a re-evaluation of resolution on the Advanced Stereo- rembold as reported by the contractor. The resolution data taken by MPIC personnel substantiated the results of the re-evaluation, and a determination has been made that the prototype instrument is acceptable with respect to resolution.	25X 25X
25X1	16. High Precision Stereocomparator. has encountered some difficulty with the computer used in the High Precision Stereocomparator. The computer has been repaired by the manufacturer	25X 25X
25X1	17. Dry Silver Equipment. Two pieces of equipment, a prototype 40" Wide Enlarger P per Processor and a Dry Silver Smeat-Film Processor developed under the Company Dry Silver Program, have been delivered to NFIC and will shortly undergo extensive test and	

25X1

evaluation.

	Approved Fee Release 2004/09/08/04/RDP78B051Z1A000800030008-1	
		25X
	SUBJECT: RED Monthly Report on Significant Events (September 1970)	
	18. AQ System Test. Additional domestic collaboral photo coverage was requested by OAD for the AQ system test program. The second test flight of the mirborne platform was unaccessful.	
5 X 1	19. Sensitometric Color Processor. A project Approval Request for development of a precision sensitometric color processor by has received final approval.	25X
	20. Color Apalyzer. A proposal was received from for a color analyser. This proposal was rejected based upon its excessively high cost. An alternative source for this instrument will be so get.	25X
	21. Briefings and Consultations:	
5X1 5X1	Wing, was extensively briefed on RED activities during 15-18 September.	
5X1	b. HFS/ATB and personnel met with Mational Bureau of Standards, on 28 September. Who enjoys international recognition as an export in the field of color and color perception, has been retained as a consultant under the contract.	25X 25X 25X
5X1	of SAC was briefed on the development of the 40" and 10" Dry Silver Processors.	
	d. C/RSB conducted a three-day session on unconventional imagery. A report on the proceedings has been prepared and distributed.	
5X1	e. RSB personnel attended several meetings related to the project. The ODir/MPIC was briefed on the progress of the project.	
5X1	f. RSB sponsored a briefing on real-time given byon lo September to MFIC.	25X
	g. RSB sponsored a briefing on given 17 September to MFIC by DIA.	25X
	h. RSB provided representation at several Color Task Force and other color-related meetings.	25X

25X1		
	Approved For Release 2005/ <u>06/08</u> : <u>CIA-RD</u> P78B05171A000800030008-1	
ļ	IOP SECKEI	
		25X1
	SIBJECT: RED Monthly Report on Significant Events (September 1970)	
25X1	1. Relative to the program, tree half-days were spent at the SOC, Pentagon, working on the Reports Control Manual.	25X1
05)/4	14-19 September on the west crists were attended the week of	25X1
25X1	modifications to the system.	
	22. Training:	
25X1	Association Convention in Miami Beach, Florida, 3-8 September.	
25X1	Science and Technology of Information Display at Brooklyn Polytechnic Institute, 14-19 September.	
25X1	eattended the Electro-Optical Design show in New York City on 23 September.	
25X1	3. Completed the IIS training package early in	
	22. Personnel:	
25X1	to the state of the state of	
25X1	staff on 22 September. Is an engineer formerly	25X1
	B. Asticipated Items of Interest for October 1970	
	1. Presceptance tests for the first production unit of the 1540 table are scheduled to start 26 October 1970.	25X1
	2. Proposals scheduled to arrive during October are:	
	a. Scanning Viewer Investigation	
	b. Variable Density Reticle Development	
	c. Dry Color Development	
	5	25X1
i		

		1 (10)	CLUULL			
Approv	ed For Release	2005 05 08	OCLANDOP	78B051 Z 1	A000800030	0008-1

Distribution:

Orig. & 5 - TSO 2 - TSO/RED

NPIC/TSC/RED (8 October 1970)

25X1

25X1