

INTELLIGENCE PRODUCTION/INFORMATION PROCESSING R&D

NPIC

1. In your Program Submission you list the specific projects which you intend to pursue. Please indicate when the specific systems under development in each project will be in operation. Please discuss further work planned within those projects and associated costs.
2. Discuss new projects you can now foresee for the period FY 1972-1975.
3. Discuss in detail specific projects you would undertake, their relative priorities, and the funds required for each, if an FY 1971 funding level 25% higher than that requested were available.
4. Discuss, in as much detail as now possible, [redacted] systems analysis you intend to undertake with the [redacted] requested for this in FY 1971. Discuss phasing of the efforts in this area.

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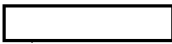
Program Plan

As indicated elsewhere, an important element in our planning to cope with the significantly increased volume of imagery anticipated in FY 1971 and FY 1972 is the vigorous prosecution of our research and development program. We plan, in FY 1971, to initiate or continue projects falling under three headings: Simplification, Imagery Handling, and Detailed Exploitation. A listing of special projects is presented below.

(signature)

#1  
then operational  
& what further  
work??


1. Simplification: Projects aimed at simplifying, speeding up, or reducing the drudgery of, certain PI tasks.

a. Automatic Target Recognition 

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The prime objective of the current program is to develop a cloud screening device as an aid to identify and discard cloud covered imagery rather than continue to encumber PI time with visual scanning of all imagery, which is traditionally 40-50% cloud covered. By 1971, a prototype device is expected to be delivered, which will be modified as necessary for production.

modifications by 1972 in operation

b. PI Correlated Stereogram Maker 


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The objective is to develop a device for printing fully rectified, correlated and properly aligned stereograms from imagery with different perspectives. This equipment would produce stereograms for PI's to use in their own working spaces, and would eliminate the necessity for their sharing the use of more complicated and expensive optical instruments for viewing stereo imagery.

late

Continuation of FY-70 program.

c. Ultra Violet Rear Projection Viewer

 The objective is to develop a rear projection viewer which will permit a number of imagery analysts to study the same imagery at the same time, and yet not degrade the quality of the imagery.

Final Dev of FY 70 item, prototype by 71  
production by 72



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[Redacted]

25X1

d. Imagery Interpretation Research [Redacted]

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Among the purposes of this continuing project are ensuring that the design and intended use of equipment are compatible with human traits and habits; modifying the physical facilities to improve the interpretation process; investigating human effects on the accuracy and quality of the NPIC product; improving criteria for the selection and training of imagery analysts. The advent of new types of imagery and of equipment will make this project of particular value during FY 1971 and 1972.

*Continuing program*

2. Imagery Handling: Projects aimed at enabling NPIC to handle, process, store and retrieve imagery in more efficient ways, with particular regard for the very large increase in materials expected.

a. Dry Silver and Non Silver Processes

[Redacted] The primary objective of this project is to develop equipment for dry processing of photo materials. This would be faster, more economical and less noxious than current chemical processes. Eventual replacement of chemical facilities would provide additional space for other purposes.

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*Continuation of 70 program - 71 equipment*

b. Chip Storage and Retrieval [Redacted]

Although the in-house study on the use of chip film in exploitation has not yet been completed, it will probably confirm the advantages of this method. The objective of this project is the development of techniques and equipment for economical and efficient storage and retrieval of imagery in this format.

*limited project 72*

*cont in 70 EFFort 72-73*

c. Automatic Transport Materials [Redacted]

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Even though chip film will probably be used in exploitation, NPIC is faced with a severe problem in the physical handling, moving and storage of roll film; the problem will become more severe as greater volumes are received. The objective of this project is to develop equipment for automating these tasks to the maximum feasible extent.

*Prototype 72 =*

[Redacted]

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[Redacted]

[Redacted]

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3. Detailed Exploitation: Projects aimed at developing equipment to permit optimum extraction of detail, [Redacted]

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[Redacted]

a. Imagery Analysis [Redacted]. The prime objective of this project is to learn more about the nature of the photographic image, in particular how to enhance and improve imagery as an aid in the extraction of intelligence therefrom. During FY 1971, it is expected that special equipment for these purposes will be developed.

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*implement studies continuation research*

b. Mensuration Equipment [Redacted]. The objective of this project is the development of mensuration equipment taking advantage of the latest technologies and state of the art for optimum exploitation of new high resolution imagery.

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72-73

c. Precise Measurement Studies [Redacted] ✓  
The purpose of this research project is to analyse the interplay between requirements for mensuration accuracies, the nature of current and projected imagery, and the qualities of available mensuration equipment. The results of such analysis would have a major impact on equipment development programs, requirements for precise satellite vehicle attitude data, etc.

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*studies relates continuation to FY-70*

d. Photo-Image Manipulation Viewer Study [Redacted] This is a study of the feasibility of developing a device for sharpening and delineating imagery in its display in viewer systems.

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*Fab of 70 designs - hardware by designed from FY-70*

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so as to enhance the interpreter's ability to extract detailed intelligence.

e. Automatic Dodging Equipment [redacted] "Dodging" is a technique employed to render with as much fidelity and quality as possible the densities or shadings of imagery in the production of photographic prints. The purpose of this project is to develop techniques and automated equipment to permit the making of chips or prints with the highest possible quality for assistance to imagery interpreters and for NPIC publications.

f. Test and Evaluation Equipment [redacted] The equipment now being developed and produced according to NPIC specifications is increasingly complex and unique. The purpose of this project is to develop specialized equipment to check conformance with NPIC standards and specifications so that NPIC will not have to risk using equipment with built-in and undetected flaws and shortcomings by relying solely on contractor assurances.

For these projects, we plan for FY 1971 a total of [redacted] an increase of [redacted] over the FY 1970 level. We plan to continue this level for the remainder of the planning period. Our overall program for dealing with the expected increase in volume of imagery is predicated in part on the results of a vigorous R&D effort. Because a number of the projects we are planning will be plowing new ground, cost estimates at this time are of necessity tenuous. In view of this, we believe it imprudent to adopt an alternative calling for a lesser degree of effort. Only by a sustained R&D program aimed at applying advances in the state of the art to the exploitation process can we ensure that maximum benefit is being derived from the costly imagery collection programs reaching fruition in the next few years. For this reason, we believe that the level of effort proposed for FY 1971 should be continued through FY 1975.

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+  
#3

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[Redacted]

Initial design studies are now under way in the intelligence community for a [Redacted] photographic reconnaissance system. By FY 1971, the general parameters of this system should be firmed up, and work will begin on the development of subsystems and components. Such a system raises hitherto unexplored problems of readout, exploitation, storage and retrieval, and will require new applications of optical, electronic, and computer technologies. The very nature of a [Redacted] system demands the closest possible interface between the design and development of the collection portion of the system and the design and development of the readout and exploitation portion. For the exploitation portion a whole range of concept, feasibility, and systems and subsystems design studies will be required as well as the development and fabrication of unique components. These efforts must proceed in close collaboration with design and development work on the collection portion of the system.

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# 4

We have therefore projected an additional [Redacted] [Redacted] in FY 1971 and FY 1972 for research and development on the [Redacted] system. We anticipate that, by FY 1973, the program will have proceeded to the point where actual development of operating components will take place; with this in mind we project an increase of [Redacted] continuing the level of effort at [Redacted] through FY 1973-1975. Our estimates as to the level of effort required are based partly on the experience of [Redacted]

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# 2  
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We plan therefore a total R&D contractual level of [Redacted] for FY 1971 and 1972, and [Redacted] for FY 1973-1975. We plan no increase in the present level of 43 positions for Management Support. An increase in that Element of [Redacted] for FY 1971 is to provide essentially for test and evaluation of the new equipment we will receive as a result of on-going projects.

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[Redacted]

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1. In your Program Submission you list the specific projects which you intend to pursue. Please indicate when the specific systems under development in each project will be in operation. Please discuss further work planned within those projects and associated costs.

a. Automatic Target Recognition [ ] - These FY-71 funds will be used for refining and modifying the prototype Automatic Target Indexing Device developed with FY 69 funds and to convert the experimental prototype into an operational piece of equipment. It should be operational by 1972. A small portion (approximately 20%) of the FY 71 funds will be directed toward maintaining some fundamental and applied research in the general category of Automatic Target Recognition, such as ways to sort and identify selected targets during search and scan. This involves laying the technical ground work for future research and development in the areas of automatic change detection and automatic target classification. We believe it worthwhile to maintain this line of research annually at a level of [ ] in keeping with our R&D role as described in NSCID #8.

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b. PI Correlated Stereogram Maker [ ] - This is a program we anticipate starting in FY 70 with an initial feasibility study. The FY-71 funding would cover the engineering design and bread-boarding of the equipment and should result in a prototype by late 1972 or early 1973. Additional funding [ ] will be required during the later fabrication stages of the prototype,

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which will be used as an operational device. This is an expensive developmental effort, but one or two of these devices should justify this R&D expenditure by eliminating the need for large numbers of highly sophisticated and very expensive viewing instruments.

c. Ultra Violet Rear Projection Viewer [ ] - This FY 71 funding will cover the final development of an operational prototype, the design of which is to be started in FY-70. We anticipate that the prototype viewer will be available by 1971; Production of operational units should begin by late 1972.

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d. Imagery Interpretation Research [ ] - This effort is fundamental to establishing the technological base for the majority of our other research and development efforts. It is anticipated that it will be a continuing program at about this same general level of effort throughout the planning period. The final products of this research serve as the basis for establishing specifications for future developmental equipment and recommendations for operational changes to improve the efficiency of the Center's exploitation program. Future work planned within this category will be aimed at meeting the changing situation within the Center, i.e., coping with new inputs resulting from future acquisition systems, alterations in production requirements and variations and modifications in operational procedures. We believe the projects for payoff in this program to be high.

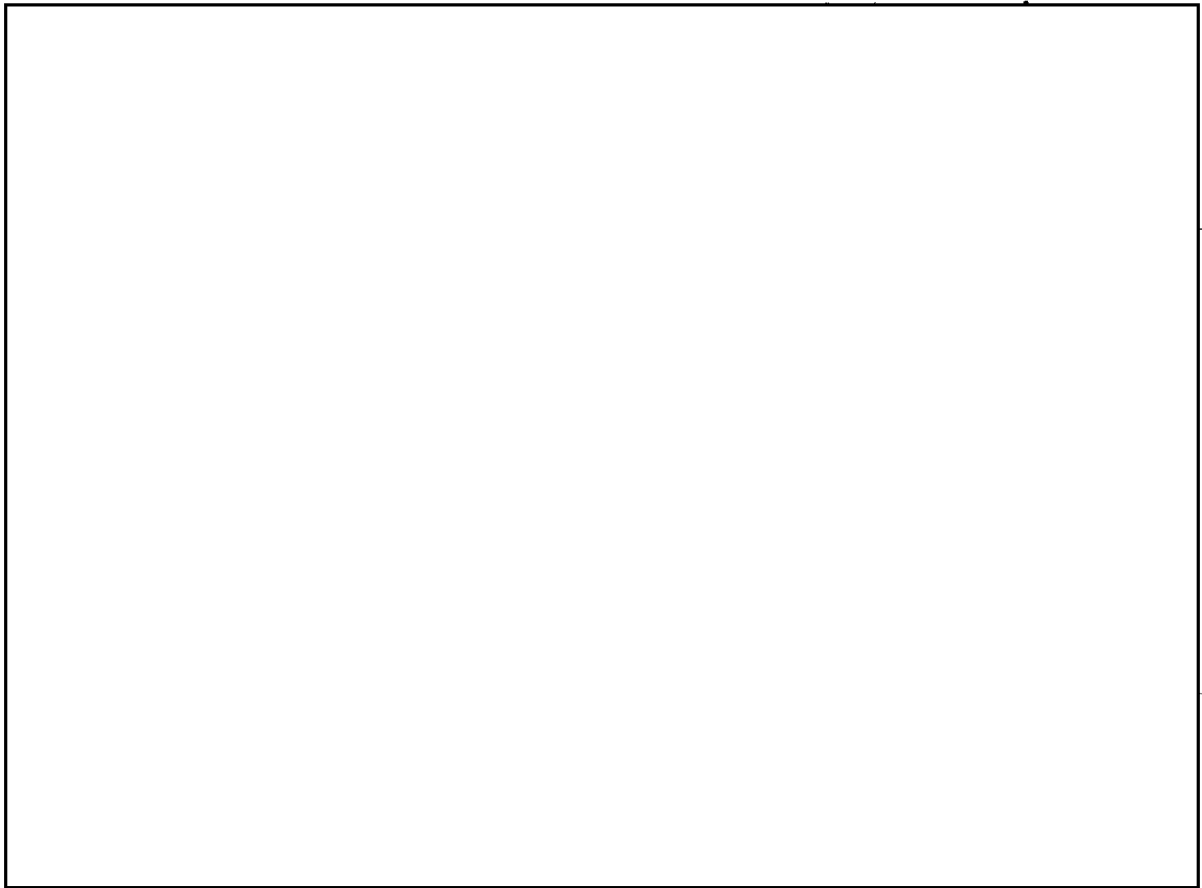
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f. Imagery Analysis [ ] - This continuing "state-of-the-art" effort covers applied research and development directed towards understanding more fully the fundamental nature of the photographic image and its relationship to achieving superior quality in the photographic process. We anticipated that most of the funds in FY-71 will be spent in the development of specialized equipment to implement those techniques examined in earlier years, e.g., imagery enhancement and restoration of degraded imagery. We believe imagery analysis is the key to our business, and although it does involve some far out research, we feel the high potential for payoff requires that we devote an annual level-of-effort of a [ ] to this program.

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g. Mensuration Equipment [ ] - This project should result in advanced prototype measuring equipment by 1972 and 1973. The equipment will incorporate design changes obtained through our imagery interpretation research program and our precise measurement studies, as well as the better wide field optical systems currently under development. Mensuration equipment under development now and in the near future will probably satisfy most of our foreseeable needs. But we believe that we should in FY-71 and 72 begin R&D which looks ahead to new generations of measuring equipment.

h. Precise Measurement Study [ ] - These FY-71 funds are for the continuation of a combined in-house and contractually supported program to be established in FY-70. We are seeking to determine the essential design parameters for mensuration equipment to be developed under the program described in the statement above (para f) with the first specific results appearing in 1971 and 1972.

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i. Photo Image Manipulation Viewer Study [ ] - This study covers the feasibility of the design of a highly specialized viewer. We hope to be able to sharpen and delineate imagery for display so as to enhance the PI's ability to extract detailed intelligence. The project will require [ ] in FY-72 to complete the fabrication of the hardware. A prototype should be available in late 1972 or 1973.

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j. Automatic Dodging Equipment [ ] - This funding covers the design and fabrication of operationally suitable automatic dodging equipment for chips and high-quality prints. (Dodging is a technique used to render with as much fidelity and quality as possible the densities or shadings of imagery). Prototype equipment should be ready by 1972 and, if successful, could result in the design and implementation of other equipment utilizing the same techniques in the field of graphics reproduction.

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k. Test and Evaluation Equipment [ ] - These FY-71 funds cover a series of short-term efforts which are required in response to on-going R&D activities. Since these efforts are keyed to developments in other individual R&D programs, we cannot describe them in detail at this time. It is clear, however, that we will have a continuing requirement for T&E equipment throughout the planning period.

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l. Dry Silver and Non-Silver Processes [ ] - This is a continuation of our FY 69-70 program in dry silver and non-silver reproduction processes. By FY-71 development should have progressed on [ ] dry silver materials to the point where we should be able to build prototype equipment for the utilization of both normal and reversal processed [ ] films.

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The FY-71 funds also included research and equipment development in the areas of dry non-silver materials, techniques, and equipment. The prototype equipment could be available in 1971 and 1972 with limited production units available in late 1972

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or early 1973. (It is possible that a breakthrough in this field <sup>could</sup> occur with some other firm. Nevertheless, we feel that this level of funding for our purposes is about right).

- m. Chip Storage and Retrieval [ ] - This program also is a continuation of an FY 69-70 effort and should result in prototype equipment for operational use in the 1972 through 1973 time frame. No additional R&D funding is anticipated at this time. *The* extent <sup>of</sup> this effort depends on the estimated impact on the Center of new collection systems. If we become convinced that there is no crucial need for chips, the R&D effort will, of course, be eliminated. 25X1
- n. Automatic Transport Materials [ ] - This project is a follow-on to a research program to be started in FY-70. The FY-71 funding should result in prototype equipment in late 1972 or early 1973, based on specifications developed under a previous design study contract. (A recent review of the film handling situation indicates that we may not require such sophisticated equipment. Should this indication prove valid, we plan to use these funds for other R&D work. (See our response to Question #3). 25X1

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2. Discuss new projects you can now foresee for the period FY 1972-1975.

(The following is generalized answer to the above question. In a few days we will provide narratives arranged by technical categories and displayed in tabular form with appropriate funding estimates.)

Research and development at NPIC is currently at a transition point. (See our Project 70-80 report, attached). This is the result of two factors: first, we have just moved through a period in which the Center was seeking short-term, quick pay-off solutions to existing problems. This policy combined with two successive austere budgets (FY 68 & 69) resulted in considerable curtailment of the scope and magnitude of our research and development program; secondly, the Center has reached a technological plateau. In the past, we have in the main conducted an equipment and project-oriented R&D program. This was practical because there were large numbers of technological gaps requiring extensive work, such as light tables, microstereoscopes, and the various other viewing devices. Much could be done in the area of viewing equipment because so much needed to be done. A series of successful developments in this area has now largely closed the gap. The same is true of many other areas of technical interest to the Center.

It is now necessary for us to think more in terms of systems and long-terms payoffs rather than individual projects and quick results. This will require a much broader technological base than we now possess. During FY 70 and 71, we intend to lay the foundation for

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establishing that base. It is, therefore, difficult at this time to project individual projects in the FY-72 to FY-75 time frame or to specify the equipment we will develop in response to operational requirements for the FY 72 to FY 75 period.

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Nevertheless, certain specific areas of endeavor can be isolated:



b. If we think of the Center as a system, then it is certainly a human-limited system. If we are to improve the efficiency of this human-limited system, studies in the area of imagery interpretation research will have to continue.

c.  of course, will provide its own impacts. These are very difficult to foresee at this time, because so little

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is known of the system or the nature of the Center's involvement. We assume, however, that we will be involved and have earmarked funds for this purpose. (See our response to question 4.)

d. Automation of the viewing process, pre-program scan, audio-stereo correlation, and automatic edge sensing in mensuration devices have to come under extensive investigation during the FY 72 - 75 period.

e. Exotic reproduction materials, techniques and equipment will have to be perfected and brought into operational use.



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3. Discuss in detail specific projects you would undertake, their relation priorities, and the funds required for each, if an FY 1971 funding level 25% higher than that requested were available.

A 25% higher funding level for FY-71 would add about [ ] in project money to our request of [ ] for R&D funds, exclusive of management support. If such additional funds were made available, we would be inclined to allocate as follows:

Image Intensifier Screen System  
Digital Image Display Techniques  
PI Correlated Stereogram Maker  
Improve and Modify Equipment  
Reversal Polarity Viewer  
Automated Comparator  
Automatic Change Detection  
Analog Image Restoration and Manipulation  
Photo Image Manipulation Viewer  
Imagery Interpretation Research

TOTAL

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25X1

In the area of imagery interpretation equipment and techniques, one area requiring further research and development during this time frame is improving display devices of the rear projection variety, i.e., broad area displays which more than one person can view at the same time. Break-throughs are required in the development of those display techniques and equipment which permit both high resolution and excellent contrast rendition at the same time, e.g., a high fidelity system. Toward this

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end, Image Intensifier-Type Screen Systems and some promising [ ]

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[ ] Techniques would be studied at a cost of [ ] We would seek only to develop breadboard models.

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A greater portion of the total cost of the PI Correlated Stereogram Maker would be funded in FY 71 for a total investment in FY 71 of [ ]

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This is an increase of [ ] would be used to improve and modify existing equipment. The majority of this investment would be utilized to apply the wide-field, high-power, anamorphic stereoviewer optical head to other pieces of Center equipment. The anamorphic stereoviewer is a new concept in imagery interpretation optics; it is the first system designed from scratch exclusively for use in our business. Assuming successful development of the system for its primary purpose, we would also use the optical head to improve some of our existing mensuration equipment, such as the Twin Stage Chip Comparators.

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We would expend [ ] for the development of a Reversal Polarity Viewer. This is an optical rather than an electronic system by which a negative can be viewed as a positive and a negative. The purpose here is to make maximum use of the negative, thus avoiding the loss in fidelity and quality caused by the inherent degradation that occurs with reproduction of the positive from the negative.

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Research at a level of about [ ] would be conducted into the Automation of Comparators, i.e., combining the best features of current comparators and microdensitometers into one piece of automated equipment. This would be an attempt to incorporate the advantages of microdensitometers into our highly sophisticated comparators, such as the one now on order from the [ ]

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25X1 [ ] The purpose would be to allow for more precise  
identification of edges and the like in degraded (i.e., below the eye  
25X1 level) imagery. Aproximately [ ] would be utilized in a parallel effort  
directed towards the solution of the Automatic Change Detection problem,  
thereby increasing the probability of technical success at an earlier date.

25X1 In the area of image analysis, [ ] would be used to expand our owrk  
in the Analog (optical) Image Restoration and Manipulation area. The  
Photo Image Manipulation Viewer, which is to be funded at [ ] in FY 71,  
would go through feasibility study, engineering design, and fabrication in  
FY 71, instead of being split-funded and phased over FY 71 and FY 72. This  
25X1 would require an additional [ ] in FY 71.

25X1 Finally, an additional [ ] would be used in the area of Imagery  
Interpretation Research to develop superior equipment training packages  
to insure that our highly sophisticated new systems will be used at maximum  
efficiency.

The above are the basic areas in which the additional funding would be  
utilized. It is extremely difficult, if not impossible, to assign  
priorities at this time since priorities are basically established in  
relationship to operational requirements or based upon the relationship  
of a technological base to some oncoming piece of equipment. In the latter  
situation, we would require a much more detailed knowledge of the specific  
equipment in the FY 72-75 time frame while in the former case we would require  
a better knowledge of future requirements than is now available.

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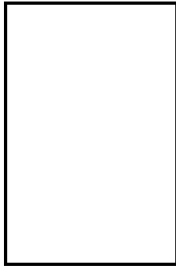
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FY 70

TRAINING

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Computer course for ORD Equipment	2 weeks	Framingham, Mass.
PI Course	1 week	Omaha, Nebraska
Optical Society Meeting	3 days	Phila., Pa.
SPSE Conference	1 week	
PI course	1 week	Omaha, Nebraska

SUPPLIES

Film & Chemicals

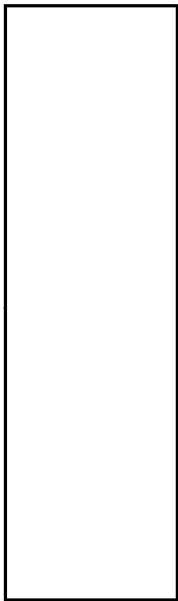


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FY 71

TRAINING

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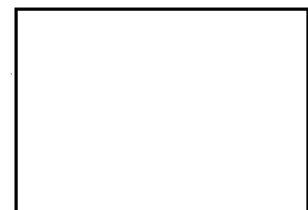


Professional Conference	1 week	
Professional Conference	1 week	
Professional Seminar	3 days	
Managerial Grid	1 week	
Professional Conference	1 week	
Professional Seminar	3 days	
Summer Institut Course	2 weeks	
Management course		
Contemporary Optics	2 weeks	Rochester, N.Y.
SPSE Conference	1 week	

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EQUIPMENT

Supplies (film, chemicals, chart paper, mag tape)  
 Closed circuit TV camera  
 Optical Components  
 Laser (Kryptor or Cadmium)



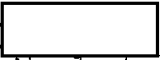
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TOTAL

SRB FY-71 TRAINING PROJECTION

25X1		Electro Optical Systems			
25X1			1 week (October)		
25X1					
25X1			Sensor Systems		
25X1			1 week (August)		
25X1					
25X1			Materials Handling Systems		
25X1			1 week (June)		25X1
25X1					
25X1			Human Factors		
25X1			2 weeks (August)		
25X1					
25X1			Display Systems		
25X1			1 week (August)		
25X1					
25X1			Computer Systems		
25X1			2 weeks (July or August)		
25X1					
25X1		Image Processing			
25X1		2 weeks (August)			
25X1					

Equipment - FY-71

- ③ Electric Desk Calculator (  )  
(The one we have is on its last legs)
- ~~Vugraph Maker (one that works)~~

Supplies - FY-71

- Blackboard
- Briefing Board easel (2)

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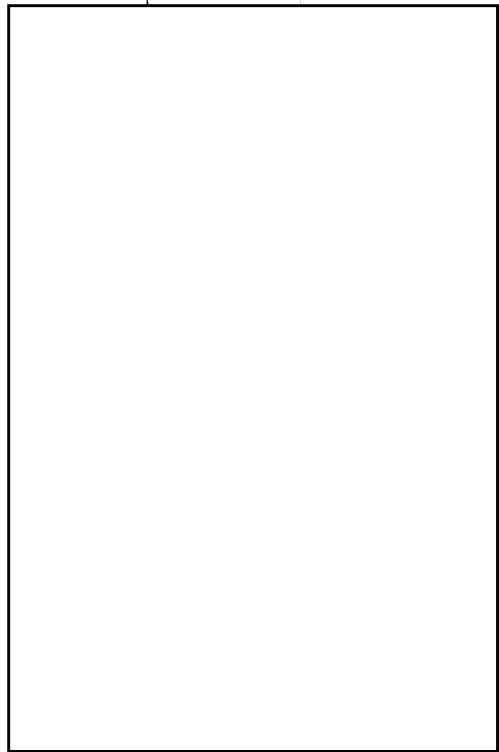
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# TRAVEL ESTIMATE

NO. OF TRIPS	AVG. COST PER TRIP	REGIONAL TOTALS	BRANCH TOTALS 25X1
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RED/SDB

EASTERN TIME ZONE	18		
CENTRAL TIME ZONE	9		
PACIFIC TIME ZONE	19		



RED/RSB

EASTERN TIME ZONE	11		
CENTRAL TIME ZONE	3		
PACIFIC TIME ZONE	11		



1

TRAVEL ESTIMATE

	No. OF TRIPS	AVG. COST PER TRIP	REGIONAL TOTALS	BRANCH TOTALS
<b>OFFICE OF THE CHIEF (RED)</b>				
EASTERN TIME ZONE	8			
CENTRAL TIME ZONE	0			
PACIFIC TIME ZONE	6			
<b>RED/ATB/HFS</b>				
EASTERN TIME ZONE	12			
CENTRAL TIME ZONE	2			
PACIFIC TIME ZONE	6			
<b>RED/ATB/ITS</b>				
EASTERN TIME ZONE	14			
CENTRAL TIME ZONE	5			
PACIFIC TIME ZONE	5			
<b>RED/ATB/ELS</b>				
EASTERN TIME ZONE	23			
CENTRAL TIME ZONE	13			
PACIFIC TIME ZONE	7			
(RED/ATB TOTAL = <input type="text" value=""/>				25X1
<b>RED/SRB</b>				
EASTERN TIME ZONE	34			
CENTRAL TIME ZONE	9			
PACIFIC TIME ZONE	27			

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TITLE	COST	EVALUATION	BRIEFING	PAR	
25X1 OPTICAL MTF/OTF Equipment		Complete	Reviewed Twice	4th Draft	Brief SA/P&A Tues. Brief you _____. Par should be smooth by 16 April. This one has to be done carefully [ ] can explain 25X1
DUAL VIEWING LIGHT TABLE		Complete	Draft		There is no support on this from IEG (AGAIN) I have directed Bruce to drop it. Requested memo from IEG.
SUBJ. COLOR IMAGE QUALITY ASS.		Complete	In Work	In Work	Par & Briefing to be completed by 22 April. Preliminary work done. [ ] will finalize as soon as he returns. 25X1
VIEWING SYSTEM STUDY		Complete	Complete	To PPBS	[ ] has agreed. Have forwarded. 25X1
COMPACT HIGH-SPEED DRY SILVER PROCESSOR		Complete	Complete	To PPBS	[ ] has told us to forward pending some support from EXRAND. Rod scheduled to brief EXRAND 21 April.
EOI VIDEO STUDY		Complete	First Reviewed 9 April	In first Draft	Can brief Nick next week.
NEW ACTIVITY DETECTOR		Complete	In Work	In Work	This item delayed because Tom has been involved almost constantly with TID problems. I have directed [ ] to take over the PAR & Briefing part, in order to get both items back on the road. 25X1
NON-COMPUTERIZED INFO HANDLING		Complete	In Work Have seen Outline	Have Reviewed First Draft	PSG has been the hang-up. We need their position. I called Steve J. He has promised me an answer by Monday (12). Viewgraphs in type.
AUTOMATED COMPOSER DEVISE		In Progress	Two Weeks	Two Weeks	Proposals arrived this week. Evaluation being done also by reprographics.
STEP & REPEAT PRINTER		Awaiting Proposal	Partially complete. Need Proposal	In Work	A lot of preliminary work has been done. Proposal due here on 15 April. Ray discussed it this week with contractor, I have reviewed draft briefing. He now needs the proposal.

25X1

TITLE	COST	EVALUATION	BRIEFING	PAR	
OPTICAL TEST KIT		Complete	Complete	Second Draft	PAR should be ready to go to PFBS by 13 April.
EOI DATA STORAGE		Awaiting some Proposals			Proposals still arriving. Final date 9 April. Jim is currently tied up on Video Study.
UNCONVENTIONAL FILM EVALUATION		Complete	In Work	In Smooth	PFBS has not been briefed. To be accomplished as soon as [redacted] returns. PAR package complete.
DATA BLOCK READER					I have reviewed with [redacted] It is not practical to go for FY-71.

25X1

25X1

25X1

TITLE	COST	EVALUATION	BRIEFING	PAR	
OPTICAL MTF/OTF Equipment		Complete	Reviewed Twice	4th Draft	Brief SA/P&A Tues. Brief you _____. Par should be smooth by 16 April. This one has to be done carefully. _____ can explain 25X1
DUAL VIEWING LIGHT TABLE		Complete	Draft		There is no support on this from IEG (AGAIN) I have directed Bruce to drop it. Requested memo from IEG.
SUBJ. COLOR IMAGE QUALITY ASS.		Complete	In Work	In Work	Par & Briefing to be completed by 22 April. Preliminary work done. _____ will finalize as soon as he returns. 25X1
VIEWING SYSTEM STUDY		Complete	Complete	To PPBS	_____ has agreed. Have forwarded. 25X1
COMPACT HIGH-SPEED DRY SILVER PROCESSOR		Complete	Complete	To PPBS	_____ has told us to forward pending some support from EXRAND. Rod scheduled to brief EXRAND 21 April.
EOI VIDEO STUDY		Complete	First Reviewed 9 April	In first Draft	Can brief Nick next week.
NEW ACTIVITY DETECTOR		Complete	In Work	In Work	This item delayed because Tom has been involved almost constantly with TID problems. I have directed _____ to take over the PAR Briefing part, in order to get both items back on the road. 25X1
NON-COMPUTERIZED INFO HANDLING		Complete	In Work Have seen Outline	Have Reviewed First Draft	PSG has been the hang-up. We need their position. I called Steve J. He has promised me an answer by Monday (12). Viewgraphs in type.
AUTOMATED COMPOSER DEVISE		In Progress	Two Weeks	Two Weeks	Proposals arrived this week. Evaluation being done also by reprographics.
STEP & REPEAT PRINTER		Awaiting Proposal	Partially complete. Need Proposal	In Work	Alert of preliminary work has been done. Proposal due here on 15 April. Ray discussed it this week with contractor, I have reviewed draft briefing. He now needs the proposal.

TITLE	COST	EVALUATION	BRIEFING	PAR	
25X1 OPTICAL TEST KIT		Complete	Complete	Second Draft	PAR should be ready to go to PPBS by 13 April. 25X1
[REDACTED]		Awaiting some Proposals			[REDACTED]
UNCONVENTIONAL FILM EVALUATION		Complete	In Work	In Smooth	PPBS has not been briefed. To be accomplished as soon as [REDACTED] returns. PAR package complete.
DATA BLOCK READER					I have reviewed with [REDACTED] It is not practical to go for FY-71. 25X1

25X1

25X1

[Redacted]

From R

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25X1

TITLE	COST	EVALUATION	BRIEFING	PAR	
OPTICAL MIF/OTF Equipment	[Redacted]	Complete	Reviewed Twice	4th Draft	Brief SA/P&A Tues. Brief you [Redacted]. Par should be smooth by 16 April. This one has to be done carefully. [Redacted] can explain. 25X1
DUAL VIEWING LIGHT TABLE		Complete	Draft		There is no support on this from LEG (AGAIN) I have directed Bruce to drop it. Requested memo from LEG.
SUBJ. COLOR IMAGE QUALITY ASS.		Complete	In Work	In Work	Par & Briefing to be completed by 22 April. Preliminary work done. [Redacted] will finalize as soon as he returns. 25X1
VIEWING SYSTEM STUDY		Complete	Complete	To PPBS	[Redacted] has agreed. Have forwarded. 25X1
25X1 COMPACT HIGH-SPEED DRY SILVER PROCESSOR		Complete	Complete	To PPBS	[Redacted] has told us to forward pending some support from EXRAND. Rod scheduled to brief EXRAND 21 April.
[Redacted]		Complete	First Re-viewed 9 April	In first Draft	Can brief Nick next week.
NEW ACTIVITY DETECTOR		Complete	In Work	In Work	This item delayed because Tom has been involved almost constantly with TID problems. I have directed [Redacted] to take over the PAR & Briefing part, in order to get both items back on the road. 25X1
NON-COMPUTERIZED INFO HANDLING		Complete	In Work Have seen Outline	Have Reviewed First Draft	PSG has been the hang-up. We need their position. I called Steve J. He has promised me an answer by Monday (12). Viewgraphs in type.
AUTOMATED COMPOSER DEVISE		In Progress	Two Weeks	Two Weeks	Proposals arrived this week. Evaluation being done also by reprographics.
STEP & REPEAT PRINTER		Awaiting Proposal	Partially complete. Need Proposal	In Work	Alot of preliminary work has been done. Proposal due here on 15 April. Ray discussed it this week with contractor. I have reviewed draft briefing. He now needs the proposal.

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TITLE	COST	EVALUATION	BRIEFING	PAR	
OPTICAL TEST KIT		Complete	Complete	Second Draft	PAR should be ready to go to PPBS by 13 April.
[REDACTED]		Awaiting some Proposals			[REDACTED]
UNCONVENTIONAL FILM EVALUATION		Complete	In Work	In Smooth	PPBS has not been briefed. To be accomplished as soon as [REDACTED] returns. PAR package complete.
DATA BLOCK READER					I have reviewed with [REDACTED] It is not practical to go for FY-71.

25X1

25X1

25X1

25X1



25X1 PROJECT OFFICER 25X1

PROJECT NAME

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25X1

Photo Technology Support V-11

15 Dec.

19 Jan.

[redacted] Follow-on contract to keep processing standards current with state-of-the-art, color or B/W and to monitor new advancements in development systems. Literature surveys-processing chemistries and techniques.

Photoscience Support V-9

1 Dec.

26 Dec.

[redacted] Follow-on. Contract to support ATB/EL in investigating new technologies and their applicability and use in exploitation.

Calibrated Test Imagery I-2 (C-in-S)

13 Dec.

15 Jan.

Calibrated color test imagery for comparison and ranking of color mission material from a quality standpoint. Follow-on to previous work. Calibrated imagery will now be evaluated in a structured comparison experiment.

Optical Image Manipulation System

31 Jan.

14 Feb.

[redacted] follow-on. Continued experimentation with laboratory and mission imagery for correction of residual smear and defocus. To improve imagery degraded due to de-focus, image motion, low contrast. Working toward Image Manipulation Facility.

[redacted]

14 Jan.

1 Apr.

14 Apr.

[redacted]

Low Cost Binocular Tube Magnifiers

21 Nov.

28 Jan.

6 Feb.

An effort to develop a low cost binocular magnifier to replace existing monocular tube magnifiers.

Automatic Stereo Scanner Autofocus System (Phase II)

15 May

31 May

Follow-on to current program. To develop an automatic focusing system for use with a future Stereo scanner. An auto-focusing system may also have other applications than Stereo scanner.

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25X1 PROJECT OFFICER

PROJECT NAME

TRENDS

D.C.

PROPOSAL  
EVAL.

PAR.  
EVAL.

COMMENTS

25X1

Automatic Stereo Scanner Utility Study (C-I-S)

N.A.

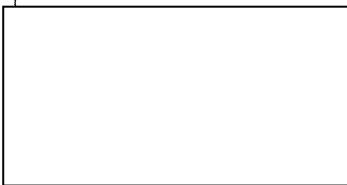
1 Mar.

15 Mar.

[redacted] for Phase I +70 Phase II. This study is to determine the utility of stereo scanning using the HPSC in a structured experiment to simulate stereo scanning conditions.

25X1

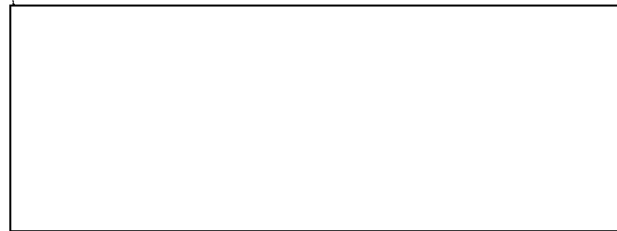
25X1



8 Oct.

15 Mar.

29 Mar.



31 Jan.

13 Mar.

27 Mar.

Four Stage High Power Stereoviewer

Comp.

21 Oct.

Two existing High Power Stereoviewers modified with a connecting optical bridge for connecting the two to one head. Allows operator to set up two stereo pairs for comparison purposes. Increase stages to 6.6 x 6.6.

OB Object Outlines

N.A.

13 Dec.

20 Dec.

Object outline guides to assist P.I.'s with object identification problems.

25X1

Vibration Elimination Implementation

15 Dec.

18 Jan.

Follow-on to [redacted] work. A program to implement the vibration "fixes" on the instruments previously studied for vibration problems.

25X1

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25X PROJECT OFFICER

PROJECT NAME

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FUNDS

D.O.

**SECRET**

PROPOSAL  
EVAL.

PAB  
FWD.

COMMENTS

25X1

PROJECT NAME	FUNDS	D.O.	PROPOSAL EVAL.	PAB FWD.	COMMENTS
UV Projection Viewer Study			15 Dec.	30 Dec.	A concept to provide a higher resolution screen than presently available using phosphors activated by UV. This project to survey the state-of-the-art after evaluation of the existing UV Viewer breadboard.
Advanced PI Roll Film Stereo Viewer System			15 Jan.	24 Jan.	To provide a viewer with high quality projection screen with detailed viewing capability at high magnifications - a follow-on and highly improved version of the Scan and Search P.I. Stations.
Front Project Viewer Feasibility Study		8 Nov.	15 Feb.	25 Feb.	To investigate approaches to providing a high quality screen for scanning imagery and solving geometry problems inherent in front projection viewing systems.
3X Objective Lenses for Mod 28 Rhomboids				12 Dec.	To provide increased magnification for the Zoom 240 Mod. 28 Rhomboids.
15X Eyepieces for Zoom 240				12 Dec.	To provide increased magnification for the Zoom 240.
Image Comparison Microstereoscope			1 May	6 June	Preproduction model. A project to eliminate "bugs" if any in the experimental model and to engineer it for procurement quantities. Also to eliminate unessential features if any.
Specialized Acceptance Test Equip- Techniques a. T&E Data Sheets b. Methods of Measuring Heat & Film Tension			12 Jan.	21 Jan.	To provide support in the test and evaluation areas thru the use of standardized test methods and to provide measurement capabilities not now available.

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PROJECT OFFICER

PROJECT NAME

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FUNDS

DO

PROPOSAL

PAR

COMMENTS

25X1

PROJECT OFFICER	PROJECT NAME	FUNDS	DO	PROPOSAL	PAR	COMMENTS
25X1	Advanced Photometer		24 Sep.	5 Jan.	19 Jan.	To provide a ruggedized, reliable, state-of-the-art photometer for measuring light source output primarily for use in test and evaluation.
	Cloupeau Printing Process			1 Dec.	28 Dec.	Breadboard only. To develop a technique for practical use in contrast enhancement without loss of resolution. One step in the R&D process.
	Dry Process Color Reproduction			14 Jan.	15 Feb.	Follow-on <input type="checkbox"/> To provide a "dry color" process in place of the conventional wet process for color materials. 25X1
	Universal Comparator Calibration Device			29 Oct.	10 Jan.	Awaiting T&E of current device. This device is meant to be used in periodic calibration of comparators used in the Center. Uses a precision NBS certified scale and nulling or "pointing" device to eliminate human pointing error.
	Dry Silver 40" Paper Processor (C-I-S current unit)			15 Jan.	1 Mar.	To improve the Processor that is in-house now based upon the test and evaluation results. The Processor is pointed for use in the Center photo lab for dry processing of paper materials exposed on existing enlargers and pointers. Large format.
	Interactive Stereo Display System (Contrast Enhancing Microstereoscope)			17 Dec.	20 Jan.	Follow-on to <input type="checkbox"/> program. A microstereoscope using optical filtering techniques to allow the operator a degree of optical manipulation to enhance viewing.
	Viewing Systems Measurement Evaluation			19 Jan.	6 Mar.	17 Mar.

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PROJECT OFFICER

25X1

PROJECT NAME

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FUNDS

D O

PROPOSAL

PAR

COMMENTS

Modifications to 10" x 10" Comparator

20 Dec.

15 Jan.

For improvements on the recently delivered and installed comparator based upon T&E results and operator evaluation.

MTF Analyzer - Phase 2

15 Jan.

5 Feb.

Awaiting successful completion of Phase I. A method for measuring the efficiency of optical trains in viewing systems. At present resolution targets are used for this purpose and agreed not optimum.

Comparator Automatic Pointing System

5 Feb.

30 Feb.

Follow-on to FY-71 work. This is to develop an automatic pointing system for use in the measuring process (comparators) to eliminate operator pointing error. For operational use day to day and not the same as the Universal Calibration Device.

25X1

12 Jan.

25 Feb.

8 Mar.

16 Feb.

23 Feb.

25X1

25X1

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FY-72

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL.	GROUP BRIEFING	EX/DIR BRIEFING	PAR FWD.	FINAL SIGN-OFF	FUNDS	COMMENTS	
25X1	SYSTEMS RESEARCH BRANCH										
25X1	FRO/G Systems Exploitation Support	1	4 Oct.	1 Nov.	29 Nov.	8 Dec.	13 Dec.			Awaiting problem Definition.	25X1
25X1	[Redacted]	1	18 Oct.	22 Nov.	10 Dec.	15 Dec.	31 Dec.			Outgrowth of TID program.	
25X1	Non-Computerized Information Handling Equipment	2	29 Nov.	3 Jan.	25 Jan.	31 Jan.	7 Feb.			Follow-on to [Redacted] Study	25X1 25X1
25X1	Report Preparation Technology Study	2	15 Nov.	17 Dec.	10 Jan.	14 Jan.	24 Jan.			Follow-on to in-house study	
25X1	[Redacted]	2	15 Nov.	17 Dec.	10 Jan.	14 Jan.	24 Jan.			"	
25X1	[Redacted]	1	6 Sept.	11 Oct.	1 Nov.	10 Nov.	22 Nov.			[Redacted] Back-Up Feasibility Study	25X1
25X1	Synthetic 3D Image Generator	2	20 Sept.	18 Oct.	10 Nov.	22 Nov.	1 Dec.			Feasibility Study	
25X1	Collateral Materials Display Investigation	2	29 Sept.	3 Jan.	25 Jan.	31 Jan.	7 Feb.			Follow-on to [Redacted] Study Feasibility Study	25X1
25X1	Rectifying Stereogram Printer Technical Feasibility	2	22 Nov.	30 Dec.	31 Jan.	7 Feb.	14 Feb.			Feasibility Study [Redacted] Back-Up	25X1
25X1	[Redacted]	2	24 Sept.	29 Oct.	15 Nov.	1 Dec.	25 Jan.			Feasibility Study	
25X1	Low Cost Binocular Tube Magnifier	1	13 Sept.	18 Oct.	4 Nov.	10 Nov.	16 Nov.			Prototype Only	
25X1	Automatic Stereo Scanner Correlator Feasibility Study	2		In-House	17 Jan.	31 Jan.	9 Feb.				
25X1	Automatic Stereo Scanner Autofocus System	2		In-House	17 Jan.	31 Jan.	9 Feb.			Follow-on Phase II [Redacted]	25X1
25X1	Automatic Stereo Scanner Utility Study	1		1 Sept.	20 Sept.	4 Oct.	18 Oct.			Change-in-Scope - [Redacted]	25X1
25X1	EOI Digital Image Storage Study	1	Comp.	Comp.	Completed	Completed	Completed			PAR Forwarded	
25X1	[Redacted]	1	23 Aug.	27 Sept.	25 Oct.	1 Nov.	10 Nov.			Feasibility Study	

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL.	GROUP BRIEFING	EX/DIR BRIEFING	PAR FWD.	FINAL SIGN-OFF	FUNDS	COMMENTS
25X1	Diffraction Pattern Discrimination Device	2	20 Sept.	18 Oct.	10 Nov.	22 Nov.	1 Dec.			Follow-on to TID
	TID Improvement Program	1	Comp.	Completed	Comp.	Comp.	Completed			PAR Forwarded
25X1	[ ] Feasibility Study	2	29 Nov.	3 Jan.	25 Jan.	31 Jan.	7 Feb.			Feasibility Study
	Audio Recording Technology Investigation	1	25 Oct.	25 Nov.	5 Dec.	20 Dec.	24 Dec.			
	Zoom 240 Improvement Program	1		15 Sept.	15 Oct.	1 Dec.	10 Dec.			Sole Source
25X1	[ ] High Power Dual Viewing Conversion	1		In-House	13 Sept.	22 Sept.	30 Sept.			Sole Source
	O/B Object Outline Reference Aids	1		In-House	8 Sept.	10 Sept.	30 Sept.			
	EOI Segmented Imagery Impact Study	1	18 Oct.	22 Nov.	20 Dec.	10 Jan.	17 Jan.			Feasibility Study [ ] Back-Up
	[ ]									
25X1	[ ]									
SYSTEMS DEVELOPMENT BRANCH:										
	Comparator Automatic Pointing System VI-2	1		15 Jan.	22 Jan.	27 Jan.	30 Jan.			Follow-on to FY-71 work.
	Mensuration Equipment Design Improvement Study VI-3	1		1 Jan.	10 Jan.	15 Jan.	20 Jan.			Awaiting completion of FY-71 Precise Measurement Study
	EOI Mensuration Parameter Data Storage VIII-6	1		1 Dec.	10 Dec.	18 Dec.	20 Dec.			"
	Scan & Search PI Station (Modifications) IV-8	1		15 Dec.	20 Dec.	31 Dec.	15 Jan.			Follow-on-sole Source
	S&R Printer V-6	1		July 71			July 71			PAR Forwarded

PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL.	GROUP BRIEFING	EX/DIR BRIEFING	PAR FWD.	FINAL SIGN-OFF	FUNDS	COMMENTS
25X1	t'd) Sensitometric Viscous Processor V-7	2	Oct. 71	Nov. 71	Nov. 71	Nov. 71				New-Lab model
	9 System DBR VI-1	1		On Hand	Completed	Completed	July 71			PAR Forwarded - Decision by PPBS required.
	Sensitometric Processor Mods V-12	2		Nov. 71	Dec. 71	Dec. 71	Dec. 71			Follow-on-sole source
	Cloupeau Viewer/Printer IV-29	1		30 Sept.	1 Oct.	10 Oct.	15 Oct.			Breadboard only
	Variable Color Balance Illuminator IV-26	2		27 Aug.	14 Sept.	21 Sept.	30 Sept.			Do in-house
	Advanced Photometer VII-2	1	15 Sept.	15 Oct.	1 Nov.	15 Nov.	11 Dec.			
	Coincident-Clue Display Feasibility Study IV-13	1	15 Sept.	15 Oct.	30 Oct.	5 Nov.	15 Nov.			
	B&W Dry Silver Positive Material V-1	1		10 Sept.	25 Sept.	1 Oct.	15 Oct.			Follow-on to FY-71
	Semi-Auto Comparator Pointing Aid VI-6	2		20 Sept.	1 Oct.	15 Oct.	20 Oct.			
	Dry Process Color Reproduction Material V-2	1		1 Jan.	15 Jan.	5 Feb.	15 Feb.			Follow-on
	P.I. Dry Silver Contact Printer V-3	2		15 Jan.	15 Feb.	5 Apr.	15 Apr.			
	Dry Silver 40" Paper Processor V-4	2		15 Jan.	20 Feb.	10 Apr.	20 Apr.			
	Dry Silver Processing Implementation Plan V-5	1		1 Sept.	15 Sept.	30 Sept.	15 Oct.			
	Universal Comparator Calibration Device VII-1	1		15 Sept.	1 Oct.	1 Nov.	15 Nov.			

25X1



PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL.	GROUP BRIEFING	EA/DIR BRIEFING	PAR FWD.	FINAL SIGN-OFF	FUNDS	COMMENTS
[ ]	Vibration Implementation IV-28	1								
	a. Anti-Vibration Devices			22 Oct.	13 Nov.	20 Nov.	27 Nov.			
	b. Vibration Elimination Implementation			15 Oct.	1 Nov.	8 Nov.	15 Nov.			
	UV Projection Viewer Study IV-6	1		29 Oct.	19 Nov.	29 Nov.	6 Dec.			
	Advanced PI Roll Film Stereo Viewer System IV-7	1		1 Oct.	5 Nov.	12 Nov.	19 Nov.			Feasibility Study
	Front Projection Viewer IV-14	1		8 Nov.	29 Nov.	6 Dec.	15 Dec.			Feasibility Study
	3X Objective Lenses for Mod 28 Rhomboids IV-16	1		15 Sept.	5 Nov.	12 Nov.	12 Nov.			
	1520 Roll Film Light Table IV-19	2		22 Sept.	13 Oct.	20 Oct.	27 Oct.			
	15X Wide-Field Eyepieces for Zoom 240 IV-22	1		1 Sept.	22 Sept.	29 Sept.	6 Oct.			
	Specialized Acceptance Test Equipment Techniques VII-3	1								
	a. T&E Data Sheets			1 Oct.	22 Oct.	29 Oct.	5 Nov.			
	b. Methods of Measuring Heat & Film Tension			22 Nov.	13 Dec.	20 Dec.	27 Dec.			
25X1	Image Comparison Microstereoscope IV-3	1		1 May	22 May	29 May	6 Jun.			Preproduction Model
[ ]	Electrostatic Briefing Board & Map Board IV-4	1			23 Aug.	30 Aug.	Sept. 71			Price quotes have been received. Awaiting size information from IEG.
	MTF Analyzer-Phase II VII-5	1		30 Dec.	15 Jan.	30 Jan.	5 Feb.			Awaiting successful completion of Phase I
	Microdensitometer Applications to Mensuration VI-5	1		7 Feb.	20 Mar.	27 Mar.	Apr. 72			Awaiting Completion of present contract.
	P.I. Aids Console IV-18	1	27 Sept.	8 Nov.	29 Nov.	6 Dec.	Dec. 71			

25X1

PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O./PROPOSAL	GROUP	LA/DIR	PAR	FINAL FUNDS	COMMENTS
			Complete Investig.	EVAL.	BRIEFING	BRIEFING	FWD. SIGN-OFF	
	Frame Locator Device IV-24	1	15 Oct.		1 Nov.	15 Nov.	1 Dec.	Proposal was received previously but needs updating
	Colorimetric Measuring Device IV-15	2	25 Oct.	20 Dec.	18 Jan.	25 Jan.	Feb. 72	Awaiting completion of color contract.
25X1	Viewing Systems Measurement Evaluation VII-4	2	13 Sept.	29 Oct.	15 Nov.	22 Nov.	8 Dec.	
25X1	Split Field Viewer	2						
ADVANCED TECHNOLOGY BRANCH								
	Optical Power Spectrum						2 Sept.	
	Recording Optical Spectrum Analyzer						2 Sept.	
	Optical Image Manipulation System III-4	1	-/6 Dec.	3 Jan.	5 Jan.	17 Jan.	24 Jan.	Follow-on
	NBS Support III-8	1	Comp.	Completed	Comp.	23 July	20 Aug.	NBS Support follow-on
	Digital Image Manipulation System III-5	1	20 Nov/1 Nov.	27 Nov.	8 Dec.	22 Dec.	20 Dec.	DIM Support contract
	Hybrid Automated Image Manip. System III-7	2	Dec/1 Dec.	17 Jan.	13 Dec.	7 Feb.	1 Feb.	New Program (Pri. 2)
	Optical Sciences Support III-8	2	15 Feb/1 Feb.	1 Mar.	22 Feb.	12 Mar.	26 Mar.	Possible FY-74. Extend present contract to 30 June 1972.
	Color Image Quality Standards	2	20 Oct/15 Oct.	1 Nov.	8 Nov.	18 Nov.	8 Dec.	Follow-on
	Imagery Interpretation Research		2 May/25 Mar.	1 Jul.	19 Jul.	30 Jul.	16 Aug.	Follow-on
	Advanced PI Equipment Design Study	2	25 Oct/4 Oct.	29 Nov.	11 Oct.	6 Dec.	13 Dec.	

25X1

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PROJECT OFFICER	PROJECT NAME	PRIORITY	PROPOSAL	PROFESSOR	GROUP	START	END	FINAL FUNDS	COMMENTS		
			Complete	EVAL.	BRIEFING	BRIEFING	FWD.	SIGN-OFF			
			Investig.								
	Photo Technology Support V-11	1	25 Oct/ 1 Oct.	8 Nov.	8 Oct.	25 Nov.	14 Dec.			Data follow-on	25X1
	Photo Products Pollution Control V-10	2	29 Nov/ 1 Nov.	13 Dec.	15 Nov.	5 Jan.	19 Jan.			Depends on Support Staff OK	
	Photoscience Support V-9	1	5 Oct./ 8 Sept.	12 Oct.	27 Sept.	19 Oct.	26 Oct.			[ ] follow-on	25X1
	Extended Range Color Toning III-1	2	25 Oct/ 1 Oct.	14 Dec.	11 Oct.	7 Jan.	21 Jan.			[ ] process	25X1
	Chemical Image Manipulation III-6	2	2 Sept/ 13 Aug.	8 Oct.	20 Aug.	29 Oct.	12 Nov.				
	Dry Silver & Unconventional Film Resolution Limits V-14	2	10 Nov/ 15 Oct.	24 Nov.	27 Oct.	8 Dec.	12 Jan.			[ ] follow-on	25X1
	Dylux Dry Color Reproduction Material V-8	2	20 Oct/ 22 Sept.	3 Nov.	6 Oct.	17 Nov.	8 Dec.			New Program	
	R.I.T. Grant		Completed	Completed			30 Aug.			Follow-on. Not an R&D project	
	Archival Color Image Study III-9	2	30 Aug/ 15 Oct.	15 Oct.	18 Nov.	30 Nov.	30 Nov.			Coordinate with CCB, [ ]	25X1
	Illumination Characteristics for B&W and Color Imagery IV-20	2	1 Nov/ 1 Dec.	1 Jan.	15 Dec.	22 Feb.	22 Jan.				
	Calibrated Test Imagery I-2	2	15 Aug/ 16 Aug.	15 Aug.	16 Sept.	30 Sept.	30 Sept.			Assignment of [ ] Project follow-on	25X1

SYSTEMS DEVELOPMENT BRANCH

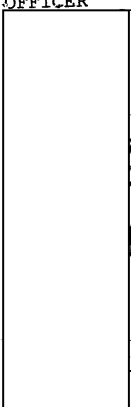
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25X1  
PROJECT  
OFFICER

	PRIORITY	D.O.	PROPOSAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FUNDS	COMMENTS
Comparator Automatic Pointing System VI-2	I		15 Jan.	22 Jan.	27 Jan.	30 Jan.		Follow-on to FY-71 work. <b>FEB</b>
Mensuration Equipment Design Improvement Study VI-3	I		1 Jan.	10 Jan.	15 Jan.	20 Jan.		Awaiting completion of FY-71. Precise Measurement Study. <b>FEB</b>
EOI Mensuration VIII-6	I		1 Dec.	10 Dec.	15 Dec.	20 Dec.		" <b>DEC</b>
Scan & Search PI Station (Modifications) IV-8	I		<del>Jan. 72</del> <b>DEC 15</b>	<del>Feb. 72</del> <b>DEC 20</b>	<del>Feb. 72</del> <b>31 DEC</b>	<del>Feb. 72</del> <b>15 JAN</b>		Follow-on-sole source <b>FEB</b>
S&R Printer V-6	I		July 71			July 71		PAR Forwarded <b>July</b>
Sensitometric Viscous Processor V-7	<del>II</del>	Oct. 71	Nov. 71	Nov. 71	Nov. 71			New-Lab model <b>DEC</b>
9 System DBR VI-1	I		On Hand	Completed	Completed	July 71		Par Forwarded Decision by PPBS required. <b>July</b>
Sensitometric Processor Mods V-12	II		Nov. 71	Dec. 71	Dec. 71	Dec. 71		Follow-on-sole source <b>DEC</b>
Small Format Roll Film Enlarger V-13	I		OSP	WILL	HANDLE			Feasibility Study
Cloupeau Viewer/Printer IV-29	I		<del>Sept. 30</del>	1 Oct.	10 Oct.	15 Oct.		Breadboard Only <b>Nov</b>
Variable Color Balance Illuminator IV-26	II		27 Aug.	14 Sept.	21 Sept.	30 Sept.		<del>Do</del> in-house
Advanced Photometer VII-2	I		<del>Sept. 71</del> <b>15 SEPT</b>	<del>1 Nov.</del> <b>15 OCT</b>	<del>1 Nov.</del> <b>1 NOV</b>	<del>1 Dec.</del> <b>15 NOV</b>	<del>1 Dec.</del> <b>10 DEC</b>	<b>DEC</b>
Coincident Clue Display Feasibility Study IV-13	I		<del>15 Sept. 71</del> <b>15 SEPT</b>	<del>30 Sept. 71</del> <b>15 OCT</b>	<del>10 Oct. 71</del> <b>30 OCT</b>	<del>30 Oct. 71</del> <b>5 NOV</b>	<del>30 Oct. 71</del> <b>15 NOV</b>	<b>DEC</b>
B&W Dry Silver Positive Material V-1	I		10 Sept. 71	25 Sept. 71	1 Oct. 71	15 Oct. 71		Follow-on to FY-71 <b>DEC</b>

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PRIORITY D.O. PROPOSAL GROUP EX. DIR. PAK FUNDS COMMENTS

PRIORITY	D.O.	PROPOSAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAK FORWARDED	FUNDS	COMMENTS
II		Semi-Auto Comparator Pointing Aid VI-6	20 Sept. 71	1 Oct. 71	15 Oct. 71	20 Oct. 71	25X1
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I		Dry Process Color Reprod. Material V-2	1 Jan. 72	15 Jan. 72	5 Feb. 72	15 Feb. 72	follow-on FEB
II		P.I. Dry Silver Contact Printer V-3	15 Jan. 72	15 Feb. 72	5 Apr. 72	15 Apr. 72	
II		Dry Silver 40" Paper Processor V-4	15 Jan. 72	20 Feb. 72	10 Apr. 72	20 Apr. 72	
I		Dry Silver Processing Implementation Plan V-5	1 Sept. 71	15 Sept. 71	30 Sept. 71	15 Oct. 71	GAT
I		Universal Comparator Calibration Device VII-1	15 Sept. 71	30 Sept. 71	15 Oct. 71	30 Oct. 71	NOV
I		Vibration Implementation IV-28					
		A. Anti-Vibration Devices	22 Oct.	13 Nov.	20 Nov.	27 Nov.	DEC.
		B. Vibration Elimination Implementation	15 Oct.	1 Nov.	8 Nov.	15 Nov.	DEC.
I		UV Projection Viewer Study IV-6	29 Oct.	19 Nov.	29 Nov.	6 Dec.	DEC
I	Do.	Advanced PI Roll Film Stereo Viewer System IV-7	1 Oct.	5 Nov.	12 Nov.	19 Nov.	Feasibility Study DE
I	D.O.	Front Projection Viewer IV-14	8 Nov.	29 Nov.	6 Dec.	15 Dec.	Feasibility Study DE
I		3x Objective Lenses for Mod 28 Rhomboids IV-16	15 Sept.	5 Nov.	12 Nov.	12 Nov.	
II		1520 Roll Film Light Table IV-19	22 Sept.	13 Oct.	20 Oct.	27 Oct.	
I		15x Wide-Field Eyepieces for Zoom 240 IV-22	1 Sept.	22 Sept.	29 Sept.	6 Oct.	OCT

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25X1 PROJECT OFFICER

PRIORITY D.O. PROPOSAL GROUP EX. DIR. PAR FUNDS COMMENTS

PROJECT OFFICER	PRIORITY	D.O.	PROPOSAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FUNDS	COMMENTS
[Redacted]	I	Approved For Release 2005/06/08 : CIA-RDP78B05171A000200030015-9						
			Specialized Acceptance Test Equipment Techniques VII-3					
			A.T&E Data Sheets	1 Oct.	22 Oct.	29 Oct.	5 Nov.	
			B.Methods of Measuring Heat & Film Tension	22 Nov.	13 Dec.	20 Dec.	27 Dec.	
	I		Image Comparison Microstereoscope IV-3	1 May	22 May	29 May	6 Jun.	Preproduction Model
	I		Electrostatic Briefing Board & Map Board IV-4		23 Aug.71	30 Aug.71	Sept.71	Price quotes have been received. Awaiting size information from IEG.
			<b>Form 88</b>					
				<b>30 DEC</b>	<b>15 JAN</b>	<b>30 JAN</b>	<b>5 FEB</b>	
	I		MTF Analyzer-Phase II VII-5	<del>14 Feb.72</del>	<del>6 Mar.72</del>	<del>13 Mar.72</del>	<del>Mar.72</del>	Awaiting successful completion of Phase I
	I		Microdensitometer applications to mensuration VI-5	7 Feb.72	20 Mar.72	27 Mar.72	Apr.72	Awaiting completion of present contract
	I	27 Sept.71	P.I. Aids Console IV-18	8 Nov.71	29 Nov.71	6 Dec.71	Dec.71	
	I		Frame Locator Device IV-24	<del>23 Aug.71</del>	<del>13 Sept.71</del>	<del>20 Sept.71</del>	<del>Oct.71</del>	Proposal was received previously but needs updating
	II	25 Oct.71	Colorimetric Measuring Device IV-15	20 Dec.71	18 Jan.72	25 Jan.72	Feb.72	Awaiting completion of color contract.
	II	<del>23 Aug.71</del>	Viewing Systems Measurement Evaluation VII-4	<del>13 Sept 71</del>	<del>18 Oct.71</del>	<del>15 Nov.71</del>	<del>22 Nov.71</del>	<del>Dec.71</del>
				13 Sept 71	29 Oct 71	15 Nov	22 Nov 71	8 Dec 71

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DEC

SPLIT FIELD II  
Viewer

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PROJECT NAME	COMPLETE INVESTIGATION	FY-72 R&D PROJECT SCHEDULE						COMMENTS
		GROUP BRIEFING	DEFINITION OF TASKS	PROPOSAL EVALUATION	EX DR. SPEC. BRIEFING	APPROVAL PACKAGE	FUNDS	
Optical Image Manipulation System (III, 4)	I 6 Dec	5 Jan	<del>20 Dec</del>	3 Jan	17 Jan	24 Jan	Follow-on	
NBS Support (III, 8)	I Completed	Completed	Completed	Completed	23 July	20 Aug	NBS Support follow-on	
Digital Image Manipulation System (III, 5)	I 1 NOV	8 DEC	20 NOV	27 NOV	22 DEC	30 DEC	DIM Support contract	
Hybrid Automated Image Manip. System (III, 7)	II 1 Dec	13 Dec	Dec	17 Jan	7 Feb	1 Feb	New Program (Pri. 2)	
Optical Sciences Support (III, 8)	II 1 Feb	22 Feb	15 Feb	1 Mar	12 Mar	26 Mar	ossible FY-74 xtend present contract to 0 June 1972	
Color Image Quality Standards (III, 2)	IV 15 Oct	8 NOV	20 Oct	1 NOV	18 NOV	8 DEC	Follow-on	
Imagery Interpretation Research Program (I, 1, 3,4,6,7,8,9,10,11,12)	25 Mar	19 Jul	2 May	1 Jul	30 Jul	26 Jul	Follow-on	
Advanced PI Equipment Design Study	II 4 Oct	11 Oct	25 Oct	29 Nov	6 Dec	13 Dec	(Pri. 2)	

OPTICAL POWER SPECT

Recording Optical Spectrum Analyzer

2 Sept

2 Sept

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FY-72 R&D PROJECTS SCHEDULE

25X1

*Meaning that ready to go forward*

PROJECT OFFICER	PROJECT NAME	COMPLETE INVESTIGATION	RED BRIEFING	DEVELOPMENT OBJECTIVES	PROPOSAL EVALUATION	NPIC BRIEFING	APPROVAL PACKAGE	FUNDS	COMMENTS
	Photo Technology Support (V, 11)	<b>I</b> 1 Oct.	8 Oct.	25 Oct.	8 Nov.	22 Nov.	14 Dec.		Follow-on Data <del>File</del> on <b>Dec</b> 25X1
	Photo Products Pollution control (V, 10.)	<b>I</b> 1 Nov.	15 Nov.	29 Nov.	13 Dec.	5 Jan.	19 Jan.		Depends on Support Staff OK (Pri. 2.)
	Photoscience Support (V, 9.)	<b>I</b> 8 Sept.	27 Sept.	5 Oct.	12 Oct.	19 Oct.	26 Oct.		[ ] Follow-on 25X1
	Extended Range Color Toning (III, 1.)	<b>II</b> 1 Oct.	11 Oct.	25 Oct.	14 Dec.	7 Jan.	21 Jan.		[ ] Process (Pri. 2) 25X1
	Chemical Image Manipulation (III, 6.)	<b>II</b> 13 Aug.	20 Aug.	2 Sept.	8 Oct.	29 Oct.	12 Nov.		(Pri. 2)
	Dry Silver and Unconventional Film Resolution Limits (V, 14.)	<b>I</b> 15 Oct.	27 Oct.	10 Nov.	24 Nov.	8 Dec.	12 Jan.		[ ] Follow-on (Pri. 2) 25X1
	Dylux Dry Color Reproduction Material (V. 8.)	<b>I</b> 22 Sept.	6 Oct.	20 Oct.	3 Nov.	17 Nov.	8 Dec.		New Program (Pri. 2)
	R.I.T. Grant	Completed		Completed	Completed			<b>30 Aug</b>	Follow-on, Not an R&D project <b>Aug</b>
	Archival Color Image Study (III, 9.)	<b>I</b> 15 Oct.	18 Nov.	30 Aug.	15 Oct.	30 Nov.	30 Nov.		Coordinate with CCB, NRO
	Illumination Characteristics for B&W and color imagery (IV, 20.)	<b>I</b> 1 Dec.	15 Dec.	1 Nov.	1 Jan.	22 Feb.	22 January		25X1
	Calibrated Test Imagery (I, 2.)	<b>I</b> 16 Aug.	16 Sept.	15 Aug.	15 Aug.	30 Sept.	30 Sept.		Assignment of [ ] Project Follow-on

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
<b>ADVANCED TECHNOLOGY BRANCH</b>										
	DIM Modulation Transfer Study (III-B5)	II		Jan. 71	Feb. 71	Feb. 71	Feb. 71			
	B&W Image Quality Eval System Dev. (III-A2)	I		Nov. 70	Dec. 70	Jan. 71	Jan. 71			
	DIM Display System Dev. I (III-B6)			Procurement						
	Colorimeter Target Development (VII-8)	II	15 Aug.	5 Oct.	17 Oct.	26 Oct.	5 Nov.			
	Color Density Dev. (V-B5)	I	28 Sept.	28 Oct.	17 Nov.	25 Nov	1 Dec.			
	Photoscience Support (V-B8)	I		28 Aug.	18 Sept	22 Sept	25 Sept			
	Film Color Stability Study	I					31 Jan.			Contingent upon info from <input type="checkbox"/>
	Chemical Image Manipulation Study (V-B2)	I	Done	22 Oct	19 Nov	23 Nov	27 Nov			
	FOI Related Phosphor Screen Materials Study (VIII-3)	II		7 Dec.	7 Jan	12 Jan	15 Jan			
	Wet Photo Processing Research (V-B6)	I	15 Sept.	21 Sept.	5 Oct.	9 Oct	15 Oct.			
	Precision Sensitive Processor Development (V-B4)	I		Gone Forward			3 Sept.			

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PROJECT NUMBER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
	Diazo & Free Radical Acceptability Study (IB-4)	II								New Item-Requires Schedule
	Line Scan Display Exploitation System Analysis (II-8)	II	18 Dec	26 Feb	24 Mar	26 Mar		Mar.		
	Subjective Color Image Quality Assessment Study (I-B1)	I	5 Oct.	27 Nov.	16 Dec.	18 Dec.		Dec.		
	Color Imagery Intelligence Value Study (I-B2)	I	5 Oct.	27 Nov.	16 Dec.	18 Dec.		Dec.		
	Manipulated-Imagery Intelligence Value Study (I-B3)	II								New Item-Requires Schedule
	[Redacted]	I	1 Nov.	30 Nov	5 Jan	8 Jan		12 Jan		
	Photochemistry Consultation (V-A4)	I	22 Oct	10 Nov	17 Nov	19 Nov		19 Nov		
	[Redacted] (IA-1-9)	I								Under Negotiation
	Color Training Program Development (IA-10)	I								Under Contract
	RPV Screen Evaluation (I-A11)	I								Postponed to FY-72

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
[Redacted]	Hybrid Image Manipulation System Dev. (III-B3)	I	Nov. 71	5 Jan	7 Jan	7 Jan				25X1
	Digital Image Manipulation System Dev. (III-B1)	I	15 Oct	21 Oct	2 Nov	Nov. 70				
	Image Evaluation Manipulation Science Support (III-B4)	I	Jan. 71	Jan. 71	Feb. 71	Feb. 71				
	Optical Image Manipulation System Dev. (III-B2)	I	Nov. 70	7 Dec.	8 Dec	Dec. 70				
	Color Image Quality Eval Sys. Dev. (III-A1)	I	Dec. 70	Dec. 70	Dec. 70	Jan 70				
	Constant Contrast Resolution Targets	II								
SYSTEM DEVELOPMENT BRANCH										
[Redacted]	Mensuration Equipment Design Improvement Study (VI-2)	I	Jan. 71	Jan. 71	Feb. 71	Feb. 71				Follow-on
	[Redacted]			Schedule Needed						
	S&R Printer (V-B7)	I	Mar. 71	Apr. 71	Apr. 71	May 71				Fabrication Follow-on
25X1	[Redacted]									
25X1	Operational Imagery Chip Syst. Dev (II-6)	II								Schedule Needed

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
[Redacted]	Colorimeter (IV-C10)	II	Sept 70	1 Nov	15 Nov	1 Dec	15 Dec			[Redacted]
	Optical Equipment MTF/OTF Analyzer	II		1 Nov	15 Nov	15 Dec	1 Jan			
	Frame Counter (IV-C13)	II		15 Oct	20 Oct	20 Nov	20 Dec			
SYSTEMS RESEARCH BRANCH										
[Redacted]	Automated PIR Production Syst Dev. (II-1)	I				1 July	8 Sept			Ready to go
	Collateral Information Viewer Development	I	24 July	21 Sept.	25 Sept.	28 Sept.	9 Oct.			Priority II Project
	Automated Briefing Board Feasibility Study (II-3)	II	24 July	21 Sept.	2 Oct.	21 Sept.	30 Sept			Formerly Layout Display Sys.
	Color Control Cell (IV-B1)	I	14 Sept.	16 Oct.	28 Aug.	23 Oct.	30 Oct.			Dovetail with standards & vocabulary study
	Color Imagery Interpretation Instrumentation Study (IV-B2)	I	30 Sept.	30 Oct.	16 Oct.	6 Nov.	20 Nov			Delay until CCC approved
	Automated Stereogram Printer Dev. (IV-C5)	I	15 Oct.	16 Nov.	30 Sept	10 Dec	24 Dec			Major decision by NPIC to proceed - takes time.
Lenticular RFP Screen Dev (IV-C3)			18 Sept.	3 Aug	22 Sept.	30 Sept.			Sole Source Follow-on	
Viewing Systems Study (IV-B3)	I		15 Mar.	1 Apr	15 Apr	1 May			Sole source Follow-on	

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OFFICE OFFICER	PROJECT NAME	PRIOR- ITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
25X1	[Redacted]	I	9 Oct.	6 Nov	2 Oct.	20 Nov.	30 Nov			No RFP till C/RED approve
		I	15 Nov	Jan. 71	Dec. 70	Jan 71.	Feb. 71			
	Automatic New Activity Detector Dev. (IV-A1)	I	23 Oct.	13 Nov.	30 Oct	25 Nov.	1 Dec.			[Redacted] follow-on
	Electronic Cloud Screener (IV-A2)	I	2 Nov.	23 Nov.	9 Nov	30 Nov	7 Dec			New Contractor
	Non-Computerized Information Handling Study (II-2)	I	18 Sept.	19 Oct.	15 Sept.	2 Nov.	16 Nov.			No RFP till C/RED approves
Compatible Medium Speed ADP Printer Dev. (II-9)	II		Dec. 70	Jan 71	Jan 71	Jan 71				

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS	
25X1	ADVANCED TECHNOLOGY BRANCH										
		DIM Modulation Transfer Study (III-B5)	II		Jan. 71	Feb. 71	Feb. 71	Feb. 71	✓		25X1
		B&W Image Quality Eval System Dev. (III-A2)	I		Nov. 70	Dec. 70	Jan. 71	Jan. 71	✓		
		DIM Display System Dev. I (III-B6)				Procurement					
		Colorimeter Target Development (VII-8)	II	15 Aug.	5 Oct.	17 Oct.	26 Oct.	5 Nov.	✓		
		Color Density Dev. (V-B5)	I	28 Sept.	28 Oct.	17 Nov.	25 Nov	1 Dec.	✓		
		Photoscience Support (V-B3)	I		28 Aug.	18 Sept	22 Sept	25 Sept	✓		
		Film Color Stability Study	I					31 Jan.	✓	Contingent upon info from <input type="checkbox"/>	
		Chemical Image Manipulation Study (V-B2)	I	Done	22 Oct	19 Nov	23 Nov	27 Nov	✓		
		<input type="checkbox"/>	II		7 Dec.	7 Jan	12 Jan	15 Jan	✓		
	Wet Photo Processing Research (V-B6)	I	15 Sept.	21 Sept.	5 Oct.	9 Oct	15 Oct.	✓			
	Precision Sensitive Processor Development (V-B4)	I			Gone Forward		3 Sept.	✓			

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PROJECT APPROVER	PROJECT NAME	PRIOR-ITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
25X1	Diazo & Free Radical Acceptability Study (IB-4)	II								New Item-Requires Schedule
	Line Scan Display Exploitation System Analysis (II-8)	II	18 Dec	26 Feb	24 Mar	26 Mar	Mar.	✓		
	Subjective Color Image Quality Assessment Study (I-B1)	I	5 Oct.	27 Nov.	16 Dec.	18 Dec.	Dec.	✓		
	Color Imagery Intelligence Value Study (I-B2)	I	5 Oct.	27 Nov.	16 Dec	18 Dec.	Dec.	✓		
	Manipulated-Imagery Intelligence Value Study (I-B3)	II								New Item-Requires Schedule
	[Redacted]									
	Photochemistry Consultation (V-A4)	I	22 Oct	10 Nov	17 Nov	19 Nov	19 Nov			
	[Redacted] IA-1-9)	I								Under Negotiation
	Color Training Program Development (IA-10)	I								Under Contract
	RFV Screen Evaluation (I-A11)	I								Postponed to FY-72

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PROJECT NUMBER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
25X1	Hybrid Image Manipulation System Dev. (III-B3)	I		Nov. 71	5 Jan	7 Jan	7 Jan	✓		25X1
	Digital Image Manipulation System Dev. (III-B1)	I		15 Oct	21 Oct	2 Nov	Nov. 70	✓		
	Image Evaluation Manipulation Science Support (III-B4)	I		Jan. 71	Jan. 71	Feb. 71	Feb. 71	✓		
	Optical Image Manipulation System Dev. (III-B2)	I		Nov. 70	7 Dec.	8 Dec	Dec. 70	✓		
	Color Image Quality Eval Sys. Dev. (III-A1)	I		Dec. 70	Dec. 70	Dec. 70	Jan 70	✓		
	Constant Contrast Resolution Targets	II								
25X1	SYSTEM DEVELOPMENT BRANCH									
25X1	Mensuration Equipment Design Improvement Study (VI-2)	I		Jan. 71	Jan. 71	Feb. 71	Feb. 71	✓		Follow-on
					Schedule Needed					
25X1	S&R Printer (V-B7)	I		Mar. 71	Apr. 71	Apr. 71	May 71			Fabrication Follow-on
		II		Sept	Mar. 71	Apr. 71	May 71			
	Operational Imagery Chip Syst. Dev (II-6)	II								

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PROJECT NUMBER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	ER. DIR. BRIEFINGS	FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS	
25X1	[ ]	II		1 Dec 70	Dec 70	Jan. 71	Feb. 71	✓		Now Priority II-Serious Technical Problems	25X1
	Scanning REV Illumination System Study (IV-C9)										
	RIPPS Dry Diazo Modifications (V-A2)	I		20 Oct. 70	30 Oct.	15 Nov	30 Nov	✓		Awaiting inputs from IEG	
	B&W Dry Silver Photo Reproduction Materials Dev. (V-A1)	I		May 70	9 June	1 July	15 Sept.	✓		Hold on [ ]	25X1
	Dry Processed Color Reproduction Materials Dev. (V-A3)	II		1 Oct.	15 Nov	30 Nov	15 Dec	✓		Related to Money above	
	Compact, High Speed Dry Silver Processor Development (V-A5)	I		1 Nov	15 Nov	15 Jan	30 Jan	✓			
	Calibration Device for HPSC (VII-1)	I		Jan 71	Feb. 71	Mar. 71	Mar. 71	✓		Follow-on	
	Comparator Variable Density Reticle Development (VI-1)	I		1 Dec	15 Jan	30 Jan	15 Feb	✓		From Priority II	
25X1	[ ]	I	July 70	15 Oct	15 Nov	1 Dec	15 Dec	✓		Hold for [ ] Design	25X1
	1540 High Magnification Light-source Development (IV-C1)										
	Exploitation Systems Vibration Elimination Study (VII-4)	I		30 Oct.	15 Dec.	30 Dec	15 Jan	✓		Prelim with Dynametric-14K	
	1540 Dual Viewing Light Table (IV-C4)	I	1 Nov.	1 Jan	1 Jan	15 Jan	11 Feb	✓			
	Optical Equipment Test Kit Dev. (VII-3)	II	Sept. 70	Oct 70	Nov. 70	Dec 70	Jan 71	✓		On Schedule	

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS	
25X1	Colorimeter (IV-C10)	II	Sept 70	1 Nov	15 Nov	1 Dec	15 Dec	✓		25X1	
	Optical Equipment MTF/OFF Analyzer	II		1 Nov	15 Nov	15 Dec	1 Jan	✓			
	Frame Counter (IV-C13)	II		15 Oct	20 Oct	20 Nov	20 Dec	✓			New Item
25X1	SYSTEMS RESEARCH BRANCH										
	Automated PIR Production Syst Dev. (II-1)	I				1 July	8 Sept	✓		Ready to go	
	Collateral Information Viewer Development	I	24 July	21 Sept.	25 Sept.	28 Sept.	9 Oct.	✓		Priority II Project	
	Automated Briefing Board Feasibility Study (II-3)	II	24 July	21 Sept.	2 Oct.	21 Sept.	30 Sept	✓		Formerly Layout Display Sys.	
	Color Control Cell (IV-B1)	I	14 Sept.	16 Oct.	28 Aug.	23 Oct.	30 Oct.	✓		Dovetail with standards & vocabulary study	
	Color Imagery Interpretation Instrumentation Study (IV-B2)	I	30 Sept.	30 Oct.	16 Oct.	6 Nov.	20 Nov	✓		Delay until CCC approved	
	Automated Stereogram Printer Dev. (IV-C5)	I	15 Oct.	16 Nov.	30 Sept	10 Dec	24 Dec	✓		Major decision by NPIC to proceed - takes time.	
Lenticular RPV Screen Dev (IV-C3)	I		18 Sept.	3 Aug	22 Sept.	30 Sept.	✓		Sole Source Follow-on		
Viewing Systems Study (IV-B3)	I		15 Mar.	1 Apr	15 Apr	1 May	✓		Sole source Follow-on		

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ENGINEER OFFICER	PROJECT NAME	PRIOR- ITY	D.D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	SR. DIR. BRIEFINGS	FORWARDED FOR	FINAL SIGN-OFF	FUNDS	COMMENTS	
25X1	[Redacted]	I	9 Oct.	6 Nov	2 Oct.	20 Nov.	30 Nov	✓	[Redacted]	No RFP till C/RED approves	
		I	15 Nov	Jan. 71	Dec. 70	Jan 71.	Feb. 71	✓		25X1	
	Automatic New Activity Detector Dev. (IV-A1)	I	23 Oct.	13 Nov.	30 Oct	25 Nov.	1 Dec.	✓		[Redacted] Follow-on	25X1
	Electronic Cloud Screener (IV-A2)	I	2 Nov.	23 Nov.	9 Nov	30 Nov	7 Dec	✓		New Contractor	
	Non-Computerized Information Handling Study (II-2)	I	18 Sept.	19 Oct.	15 Sept.	2 Nov.	16 Nov.	✓		No RFP till C/RED approves	
	Compatible Medium Speed ADP Printer Dev. (II-9)	II		Dec. 70	Jan 71	Jan 71	Jan 71				

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
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25X1

ADVANCED TECHNOLOGY BRANCH

25X1

	DIM Modulation Transfer Study (III-B5)	II		Jan. 71	Feb. 71	Feb. 71	Feb. 71			
	B&W Image Quality Eval System Dev. (III-A2)	I		Nov. 70	Dec. 70	Jan. 71	Jan. 71			
	DIM Display System Dev. (III-B6)				Procurement					

	Colorimeter Target Development (VII-8)	II	15 Aug.	5 Oct.	17 Oct.	26 Oct.	5 Nov.			
	Color Density Dev. (V-B5)	I	28 Sept.	28 Oct.	17 Nov.	25 Nov	1 Dec.			

	Photoscience Support (V-B8)	I		28 Aug.	18 Sept	22 Sept	25 Sept			
	Film Color Stability Study	I					31 Jan.			Contingent upon info from <input type="checkbox"/>
	Chemical Image Manipulation Study (V-B2)	I	Done	22 Oct	19 Nov	23 Nov	27 Nov			
	<input type="checkbox"/>	II		7 Dec.	7 Jan	12 Jan	15 Jan			

25X1

25X1

	Wet Photo Processing Research (V-B6)	I	15 Sept.	21 Sept.	5 Oct.	9 Oct	15 Oct.			
	Precision Sensitometric Processor Development (V-B4)	I			Gone Forward		3 Sept.			

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25X1	Hybrid Image Manipulation System Dev. (III-B3)	I	Nov. 71	5 Jan	7 Jan	7 Jan				25X1
	Digital Image Manipulation System Dev. (III-B1)	I	15 Oct	21 Oct	2 Nov	Nov. 70				
	Image Evaluation Manipulation Science Support (III-B4)	I	Jan. 71	Jan. 71	Feb. 71	Feb. 71				
	Optical Image Manipulation System Dev. (III-B2)	I	Nov. 70	7 Dec.	8 Dec	Dec. 70				
	Color Image Quality Eval Sys. Dev. (III-A1)	I	Dec. 70	Dec. 70	Dec. 70	Jan 70				
	Constant Contrast Resolution Targets	II								
25X1	SYSTEM DEVELOPMENT BRANCH									
25X1	Mensuration Equipment Design Improvement Study (VI-2)	I	Jan. 71	Jan. 71	Feb. 71	Feb. 71				Follow-on
				Schedule Needed						
25X1	S&R Printer (V-B7)	I	Mar. 71	Apr. 71	Apr. 71	May 71				Fabrication Follow-on
			Sept	Mar. 71	Apr. 71	May 71				
25X1	Operational Imagery Chip Syst. Dev (II-6)	II		Schedule Needed						

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25X1											
	Scanning RVF Illumination System Study (IV-C9)	II		1 Dec 70	Dec 70	Jan. 71	Feb. 71			Now Priority II-Serious Technical Problems	25X1
	RIPPS Dry Diazo Modifications (V-A2)	I		20 Oct. 70	30 Oct.	15 Nov	30 Nov			Awaiting inputs from IEG	
	B&W Dry Silver Photo Reproduction Materials Dev. (V-A1)	I		May 70	9 June	1 July	15 Sept.			Hold on [ ]	25X1
	Dry Processed Color Reproduction Materials Dev. (V-A3)	II		1 Oct.	15 Nov	30 Nov	15 Dec			Related to Money above	
	Compact, High Speed Dry Silver Processor Development (V-A5)	I		1 Nov	15 Nov	15 Jan	30 Jan				
	Calibration Device for HPSC (VII-1)	I		Jan 71	Feb. 71	Mar. 71	Mar. 71			Follow-on	
	Comparator Variable Density Reticule Development (VI-1)	I		1 Dec	15 Jan	30 Jan	15 Feb			From Priority II	
25X1											
	1540 High Magnification Light-source Development (IV-C1)	I	July 70	15 Oct	15 Nov	1 Dec	15 Dec			Hold for [ ] Design	25X1 25X1
	Exploitation Systems Vibration Elimination Study (VII-4)	I		30 Oct.	15 Dec.	30 Dec	15 Jan			Prelim with Dynametric-[ ]	
	1540 Dual Viewing Light Table (IV-C4)	I	1 Nov.	1 Jan	1 Jan	15 Jan	11 Feb				
	Optical Equipment Test Kit Dev. (VII-3)	II	Sept. 70	Oct 70	Nov. 70	Dec 70	Jan 71			On Schedule	

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25X1										25X1
	Colorimeter (IV-C10)	II	Sept 70	1 Nov	15 Nov	1 Dec	15 Dec			
	Optical Equipment MTF/OTF Analyzer	II		1 Nov	15 Nov	15 Dec	1 Jan			
	Frame Counter (IV-C13)	II		15 Oct	20 Oct	20 Nov	20 Dec			New Item
25X1	SYSTEMS RESEARCH BRANCH									
	Automated PIR Production Syst Dev. (II-1)	I				1 July	8 Sept			Ready to go
	Collateral Information Viewer Development	I	24 July	21 Sept.	25 Sept.	28 Sept.	9 Oct.			Priority II Project
	Automated Briefing Board Feasibility Study (II-3)	II	24 July	21 Sept.	2 Oct.	21 Sept.	30 Sept			Formerly Layout Display Sys.
	Color Control Cell (IV-B1)	I	14 Sept.	16 Oct.	28 Aug.	23 Oct.	30 Oct.			Dovetail with standards & vocabulary study
	Color Imagery Interpretation Instrumentation Study (IV-B2)	I	30 Sept.	30 Oct.	16 Oct.	6 Nov.	20 Nov			Delay until CCC approved
	Automated Stereogram Printer Dev. (IV-C5)	I	15 Oct.	16 Nov.	30 Sept	10 Dec	24 Dec			Major decision by NPIC to proceed - takes time.
	Lenticular RVF Screen Dev (IV-C3)	I		18 Sept.	3 Aug	22 Sept.	30 Sept.			Sole Source Follow-on
	Viewing Systems Study (IV-B3)	I		15 Mar.	1 Apr	15 Apr	1 May			Sole source Follow-on

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS
25X1	[Redacted]	I	9 Oct.	6 Nov	2 Oct.	20 Nov.	30 Nov			No RFP till C/RED approves
		I	15 Nov	Jan. 71	Dec. 70	Jan 71.	Feb. 71			
	Automatic New Activity Detector Dev. (IV-A1)	I	23 Oct.	13 Nov.	30 Oct	25 Nov.	1 Dec.		[Redacted] follow-on	
	Electronic Cloud Screener (IV-A2)	I	2 Nov.	23 Nov.	9 Nov	30 Nov	7 Dec		New Contractor	
	Non-Computerized Information Handling Study (II-2)	I	18 Sept.	19 Oct.	15 Sept.	2 Nov.	16 Nov.		No RFP till C/RED approves	
Compatible Medium Speed ADP Printer Dev. (II-9)	II		Dec. 70	Jan 71	Jan 71	Jan 71				

25X1

25X1

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PROJECT OFFICER	PROJECT NAME	PRIORITY	D.O.	PROPOSAL EVAL	GROUP BRIEFINGS	EX. DIR. BRIEFINGS	PAR FORWARDED	FINAL SIGN-OFF	FUNDS	COMMENTS	
25X1	Diazo & Free Radical Acceptability Study (IB-4)	II								New Item-Requires Schedule	25X1
	Line Scan Display Exploitation System Analysis (II-8)	II	18 Dec	26 Feb	24 Mar	26 Mar		Mar.			
	Subjective Color Image Quality Assessment Study (I-B1)	I	5 Oct.	27 Nov.	16 Dec.	18 Dec.		Dec.			
	Color Imagery Intelligence Value Study (I-B2)	I	5 Oct.	27 Nov.	16 Dec	18 Dec.		Dec.			
	Manipulated-Imagery Intelligence Value Study (I-B3)	II								New Item-Requires Schedule	
25X1	[Redacted]	I	1 Nov.	30 Nov	5 Jan	8 Jan		12 Jan			25X1
	Photochemistry Consultation (V-A4)	I	22 Oct	10 Nov	17 Nov	19 Nov		19 Nov			
25X1	[Redacted] (IA-1-9)	I								Under Negotiation	25X1
	Color Training Program Development (IA-10)	I								Under Contract	
	RFV Screen Evaluation (I-All)	I								Postponed to FY-72	

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