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~~151~~ NATIONAL RECONNAISSANCE OFFICE  
WASHINGTON, D.C.



OFFICE OF THE DIRECTOR

JUN 10 1970

MEMORANDUM FOR BRIGADIER GENERAL KING, DIRECTOR, PROGRAM A  
SUBJECT: PY 1971 Initial Program Approvals

Initial approvals for program year 1971 are furnished in the attachments. In several instances, program efforts are deferred from initial approval pending July Ex Com determinations. As a general rule, "Undefined" efforts have been deferred pending definitization, altho certain added flexibility is granted to SAFSP in relation to PY 1970 restrictions. Also, a degree of reprogramming flexibility has been authorized under the Applied Research/Advanced Technology account.

SAFSP is to be congratulated for its excellent financial management record for PY 1970. As PY 1971 and subsequent year DOD funding becomes increasingly more difficult, the NRP must be in a position to demonstrate value received for funds spent, and your continued cooperation is requested.

Gen. Averb

Signed

JOHN L. McLUCAS  
Director

Attachments

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GENERAL (SAFSP)

FY 1971 Initial Approval

1. "Undefined Costs"

In a number of programs, undefined costs have been deferred for later consideration as they are defined. The FY 1971 procedures for accommodating these definitizations will be:

a. With respect to component "changes," SAFSP has authority to initiate these, where the non-recurring total cost would not exceed \$499K or the unit recurring cost increase would not exceed \$49K. Changes which would exceed these levels are subject to DNRO advance approval.

b. With respect to valid and unavoidable cost increases, SAFSP has authority to recognize these, again up to the \$500K non-recurring/\$50K recurring level per line entry. Cost increases which would exceed these levels are subject to DNRO advance approval.

c. The authority for recognizing additional costs for whatever reason will cumulatively extend up to the "Undefined" amount identified by SAFSP in the FY 1971 Financial Program submission, by line item within each program (for example, \$1,800K for Gambit Spacecraft). If any line item would cumulatively exceed the identified amount, it is subject to DNRO advance approval.

d. The mechanics for processing these definitizations within SAFSP authority will be to use the monthly Financial Status Report, by reflecting under the "Estimated Program Requirements", by line item, the costs of the authority used upon definitization (not forecasts), reflect the "approved Budget Program" as officially approved, and reflect a deficit with notations that deficits are related to definitization. Comptroller approval will then be automatic.

2. NSA Cost-Sharing

Initial approvals for NSA cost-sharing will be issued separately, after early discussions with NSA personnel.

3. Prior Year Unobligated Balances

Approvals herein are on a gross funding basis. To the extent that unobligated FY 1970 and prior year balances exist as of 30 June 1970, the NRO Comptroller will conduct an evaluation with SAFSP personnel, to ascertain any appropriate amounts to be applied against the P.Y. 1971 gross approvals.

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FINANCIAL RECAP BY 1971 DNRD INITIAL APPROVALS (SAFSP)  
(Thousand Dollars)

	<u>F3600</u> <u>White</u>	<u>F3600</u> <u>Black</u>	<u>F3020</u> <u>White</u>	<u>F3020</u> <u>Black</u>	<u>F3080</u> <u>White</u>	<u>F3080</u> <u>Black</u>	<u>Total</u>
CORONA			\$ 6,280	\$ 365	\$ 11,580		\$ 18,225
HEXAGON	8,314	4,530	73,439	28,820	10,772	3,958	129,833
GAMBIT	1,940	50	55,245	28,683	9,940		95,858
SIGINT 770			720	4,121	2,818	4,253	11,912
SIGINT FOPPE			8,953				8,953
SIGINT P-11	200	450		18,100	763	3,530	23,043



Readout Technology							0
Advanced Sigint							0
Improved Gambit							0
VHR Technology	118	3,300					3,418
Satellite Control					72,666		72,666
AFSPFF	475		855		1,412	1,084	3,826
Propellants					2,962		2,962
Misc. Operating					10	3	13
Applied Research	1,815	3,057					4,872
Advanced Development	400	1,348					1,748
Photo R&D		2,200					2,200
Vulnerability R&D	365	1,085					1,450
Misc. Development	470						470

TOTALS

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CORONA (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

Approval is based on a capability for 5 launches in FY 1971 and 2 in FY 1972, altho actual launches may be influenced by Hexagon.

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>F3020 White:</u>		
Spacecraft	\$ 7,220	\$ 6,280
<u>F3020 Black:</u>		
DISIC	305	305
Systems Integration	<u>60</u>	<u>60</u>
Sub-total	365	365
<u>F3080 White:</u>		
Booster Launch	5,500	5,500
Agena Launch	4,500	4,500
BTL Launch	1,500	1,500
Support Services	<u>80</u>	<u>80</u>
Sub-total	11,580	11,580
 <u>CORONA Total</u>	 19,165	 18,225

The spacecraft difference of \$940K is related to the contingency for future cost growth, subject to later consideration if it materializes.

For your information, PILOT is being granted CORONA initial approvals for:

Cameras	\$ 1,072
Recovery Vehicles	717
Payload Structures and Integration	4,700
Computer Rental	700
Relocation and Restoration	<u>35</u>
Total	7,224

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(Thousand Dollars)

The DNRO approval is based on three launches in FY 1971, four per year in FY 1972 thru 1974, and three per year thereafter.

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>P3600 White:</u>		
Spacecraft	\$ 1,850	\$ 1,700
Recovery Vehicle	1,135	1,020
5th RV	570	570
Doppler Beacon	505	505
Booster SE/TD	750	1,500
Block Change	1,000	0
Aerospace	<u>1,510</u>	<u>3,019</u>
Sub-total	7,320	8,314
<u>P3600 Black:</u>		
Spacecraft	1,500	1,360
ST Camera	3,590	3,170
Block Change	<u>4,000</u>	<u>0</u>
Sub-total	9,090	4,530
<u>P3020 White:</u>		
Spacecraft	46,770	40,000
Ascent Guidance	350	350
Command Subsystem	6,680	5,830
TIID Booster	7,261	4,439
Recovery Vehicle	18,180	16,630
5th RB	2,720	2,570
Doppler Beacon	720	720
Disaster Control Plan	<u>2,900</u>	<u>2,900</u>
Sub-total	85,581	73,439
<u>P3020 Black:</u>		
Spacecraft	15,510	13,820
Recovery Vehicle	6,860	6,260
ST Camera	6,280	7,010
Survivability Hardware	<u>1,730</u>	<u>1,730</u>
Sub-total	32,380	28,820
<u>P3020 White:</u>		
TIID Launch	7,800	7,800
SV Launch	<u>1,872</u>	<u>1,872</u>

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	<u>SAFSP Submission</u>	<u>DNRO Initial Approval</u>
BTL Launch	900	900
Booster SE/TD	750	RDT&E
Support Services	200	200
Aerospace	<u>1,509</u>	<u>RDT&amp;E</u>
Sub-total	13,031	10,772
 <u>P3090 Block:</u>		
Mission Planning	4,280	3,768
Pilot Support	<u>190</u>	<u>190</u>
Sub-total	4,470	3,958
 HEXAGON Total, SAFSP	 151,872	 129,833

"Undefined" costs have been deferred for later consideration as they are defined (reference the "GENERAL" section for guidance in this connection). Block changes are subject to specific justification and DNRO advance approval.

Mission Planning has been adjusted based on message exchanges with the SOC.

For your information, PILOT is being granted HEXAGON initial approvals for:

Sensor Improvement Changes (R&D for In-Flight Changeable Filter and Adaptation for Color Photography)	\$ 1,050
Sensor Sub-system	55,690
SETS (TRM)	3,004
Visual Edge Matching	250
Field and Facilities Support	3,300
Miscellaneous Support	<u>515</u>
Total	63,839

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CONTROL SYSTEMGAMBIT (SAFSP)FY 1971 Initial Approval  
(Thousand Dollars)

The DNRO approval is based on a launch schedule of 5 in FY 1971, 5 in FY 1972, and 4 per year thereafter, with maintenance of a pipeline vehicle thruout the program period.

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>P3600 White:</u>		
Long Tank Booster	\$ 1,940	\$ 1,940
<u>P3600 Black:</u>		
Long Tank Booster	50	50
<u>P3020 White:</u>		
Spacecraft	26,661	24,861
Titan 3B Booster	23,161	21,761
Long Tank Booster	488	488
Command Subsystem	5,240	4,640
Recovery Vehicle	<u>4,095</u>	<u>3,495</u>
Sub-total	59,645	55,245
<u>P3020 Black:</u>		
PAS/Roll Joint	3,128	2,828
Recovery Vehicle	2,501	2,001
Payload	25,209	23,409
Bit Boxes	<u>445</u>	<u>445</u>
Sub-total	31,283	28,683
<u>P3080 White:</u>		
Booster Launch	2,500	2,500
Agona Launch	2,500	2,500
BTL Guidance	1,860	1,860
Mission Planning	675	100
Support Services	280	200
Aerospace	<u>2,205</u>	<u>2,205</u>
Sub-total	10,020	9,940
<b>GAMBIT Total</b>	<b>102,958</b>	<b>95,858</b>

"Undefined" costs have been deferred for later consideration as they are defined (reference the "GENERAL" section for guidance in this connection). Prospective new developments will be considered as they are defined.

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SIGINT 770 (STRAMMAN) (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

The DNRO approval is based on a capability for launch of 2 vehicles in FY 1971, and termination of vehicle 2738.

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>E3020 White:</u>		
Spacecraft	\$ 770	\$ 720
<u>E3020 Black:</u>		
Spacecraft	3,251	2,651
Payloads	<u>1,695</u>	<u>1,470</u>
Sub-total	4,946	4,121
<u>E3080 White:</u>		
Thor Launch	1,100	1,100
Agena Launch	900	900
BTL Guidance	300	300
SCF Peculiars	100	100
Support Services	50	50
Aerospace	<u>683</u>	<u>368</u>
Sub-total	3,133	2,818
<u>E3050 Black:</u>		
MADS	3,583	3,103
Mission Planning	900	900
Command Generation	<u>250</u>	<u>250</u>
Sub-total	4,733	4,253
<b>SIGINT 770 Total</b>	<b>13,582</b>	<b>11,912</b>

"Undefined" costs have been deferred for later consideration as they are defined (reference the "GENERAL" section for guidance in this connection).

The Aerospace approval is based on 7 MDS, as budgeted, rather than the 13 requested. If there are reasons why more than 7 should be approved, in the face of program phaseout, they should be submitted for reconsideration.

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1285-78  
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Director C will be furnishing a separate approval memo on the NIT payload.  
It is requested that the NIT payload and authority be furnished to  
the Navy early in July.

8,952.6	11,251.4	POPPY Total
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\$ 7,652.6  
800  
500  
8,952.6

\$ 7,951.4  
800  
500  
8,051.4

23020 NITs:  
NIT Payload  
Payload Integration  
Agent Escalation  
Sub-total

Vehicles 2106 and 2107

DNO Initial  
Approval

SASSP/DIA, C  
Submission

The DNO approval is based on launch of vehicle 2107 in Nov 71 (SASSP  
Option 11A, NIT Option 1).  
for further consideration.

EX 1071 Initial Approval  
(Through Bottlers)

SIGNIT POPPY (SASSP)

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SIGINT P-11 (2086) (SAFSP)

FY 1971 Initial Approval  
(Thousands Dollars)

The DNRD approval is based on 3 rides in FY 1971, including Arroyo, but deferral of funding for an FY 1972 QRC vehicle, pending further evaluations.

	<u>SAFSP Submission</u>	<u>DNRD Initial Approval</u>
<u>F3600 White:</u> Adv. Development (TTC C)	\$ 200	\$ 200
<u>F3600 Black:</u> HEXAGON Interface	450	450
<u>F3020 Black:</u> Spacecraft (Basic Bus)	2,900	2,700
Spacecraft and Payloads	<u>17,300</u>	<u>15,400</u>
Sub-total	20,200	18,100
<u>F3060 White:</u> Mission Planning	500	500
Aerospace	<u>263</u>	<u>263</u>
Sub-total	763	763
<u>F3080 Black:</u> MADS	3,705	3,285
Payload Techniques	120	120
Command Generation	<u>125</u>	<u>125</u>
Sub-total	3,950	3,530
<b>SIGINT P-11 Total</b>	<b>25,563</b>	<b>23,043</b>

\$200K under Spacecraft (Basic Bus) and \$120K under MADS as "Undefined" costs have been deferred for later consideration as they are defined (reference the "GENERAL" section for guidance in this connection).

\$1,900K under Spacecraft and Payloads for an FY 1972 QRC vehicle is deferred for further consideration.

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FIGURE 7200 SIGNATURE CIRCUITS  
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READOUT TECHNOLOGY (SARSP)

FY 1971 Initial Approval  
(Thousand Dollars)

"Within-Budget":	<u>SAFSP</u> <u>Submission</u>	<u>DNHD Initial</u> <u>Approval</u>
<u>P3600 White:</u>		
Aerospace	\$ 525	0
<u>P3600 Black:</u>		
BTL Program	2,500	0
CBS Program	11,225	0
GE Program	3,825	0
Image Reconstruction Technology	1,775	0
Related Technology	1,150	0
Systems Studies	<u>1,500</u>	<u>0</u>
Sub-total	21,975	0
Within-Budget Sub-total	22,500	0
<u>Augmented Program:</u>		
<u>P3600 Black:</u>		
CBS Program	1,300	0
GE Program	800	0
Image Reconstruction Technology	250	0
Image Tube Development	4,100	0
Digiscanner Application	<u>350</u>	<u>0</u>
Augmented Program Sub-total	6,800	0
Readout Technology Total, SAFSP	29,300	0

This program will be a July 70 Ex Com issue. Pending the Ex Com decisions, no commitments are to be made to the contractors which would involve FY 1971 funding.

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ADVANCED SIGINT SYSTEM STUDIES (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>F3600 Black:</u>		
System Design Studies	\$ 3,000	0
Interference Models	1,000	0
Data Storage Development	1,000	<u>0</u>
<b>Total</b>	<b>5,000</b>	<b>0</b>

Deferred for later consideration

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IMPROVED GAMBIT (SAFSP)

The SAFSP submission stated "Pending a decision by Secretary McLucas as a result of the Improved GAMBIT/VHR Technology briefing on 23 April 1970, no submission is being made in this area at this time. If direction is received to proceed with this program, a separate addendum submission will be made at a later date."

This constitutes notification that the DNRO does not desire to proceed with this program in FY 1971.

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VHR Technology (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u> (Option 2)	<u>DNRO Initial</u> <u>Approval</u>
<u>P3600 White:</u>		
Titan 3D Interface	\$ 100	0
Aerospace	<u>630</u>	<u>118</u>
Sub-total	730	118
<u>P1600 Black:</u>		
EKC Facilities	600	600
MPL & Adapter	10,800	0
Satellite Control Section	1,900	0
F10102	5,100	2,050
Strip Camera	2,000	650
Tooling	400	0
Recovery Vehicle Interface	100	0
Command Subsystem	<u>100</u>	<u>0</u>
Sub-total	21,000	3,300
VHR Total	21,730	3,418

A separate VHR Technology/System program is not intended. However, inasmuch as a VHR/Readout system will be among the options presented to the July Ex Com, the initial approval covers sustaining funding of current limited effort, or VHR termination if chosen by the Ex Com. Concurrence in termination of Strip Camera effort was contained in WHIG 0363.

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SATELLITE CONTROL FACILITIES (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SCF</u> <u>Submission</u> (27 May Version)	<u>DNRO Initial</u> <u>Approval</u>
<u>P3080 White:</u>		
Contractor Manning	\$28,677	\$ 26,830
Logistic Support	4,426	3,900
ECP & Minor Mods	3,200	2,186
Systems Integration & Sustaining		
Engineering	7,000	7,000
Computer Lease-Buy	14,683	13,727
Computer Integration	9,455	9,180
Computer Programming	5,180	3,530
Miscellaneous Support	3,215	3,215
Aerospace	<u>3,413</u>	<u>3,098</u>
<b>SCF Total</b>	<b>79,249</b>	<b>72,666</b>

Contractor Manning - The FY 1970 gross approval of \$25,920K, plus a 3.5% pricing increase is the basis for the initial approval. Meaningful reasons for the \$1,847K difference requested must be provided if a reclama is intended.

Logistic Support - Initial approval held to the FY 1970 level, pending FY 1971 experience.

ECP & Minor Mods - Approval is on a net basis. Gross approval includes reauthorization to utilize FY 1970 unobligated funds for ECP/Minor mods.

Computer Lease - Buy - \$751K for IBM/ODC purchases deleted, on understanding these have been covered by late FY 1970 purchase. \$205K for magnetic drum for CDC 3800 deferred, pending more specific justification for requirement.

Computer Integration - 10% reduction in Model Integration.

Computer Programming - Deferrals of 1230 development Diagnostic/Utilities (\$200K), Improved RTS Software System (\$500K); Engineering Change Proposal (\$400K); and Studies and Analyses (\$550K), pending more specific justification for requirements.

Aerospace - Approval based on 59 MTS, rather than 65 requested.

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(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>P3600 White:</u>		
Image Analysis	\$ 350	\$ 200
Processing	700	0
Printing	700	0
Quality Control & Automation	300	150
Conservation & Pollution Control	125	125
Sub-total	<u>2,175</u>	<u>475</u>
<u>P3020 White:</u>		
CORN Equipment	100	100
Mission Support Equipment	849	450
Pollution Control Equipment	450	150
Test, Evaluation & Lab Support Equipment	155	155
Sub-total	<u>1,554</u>	<u>855</u>
<u>P3080 White:</u>		
CORN Operations	780	780
Engineering Support	120	50
Installation Support	120	120
Laboratory/Evaluation Support	200	50
Equipment Rentals/Support	465	257
Film and Chemicals	155	155
Sub-total	<u>1,840</u>	<u>1,412</u>
<u>P3080 Black:</u>		
Film	1,832	1,084
<b>AFSPPF Total</b>	<b>7,401</b>	<b>3,826</b>

P3600 White Approval Basis:

Image Analysis color effort deferred, pending over-all color determinations.

Processing and Printing R&amp;D subject to individual project approvals - color specifically deferred.

Quality Control &amp; Automation color effort deferred.

P3020 White Approval Basis:

Mission Support Equipment color effort deferred.

Pollution Control Equipment for \$300K deferred pending withdrawal of M&amp;P item.

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**F3080 White Approval Basis:**

Engineering Support color effort deferred.

Laboratory/Evaluation Support for \$150K deferred pending additional justification.

Equipment Rentals/Support held at FY 1970 level, pending additional justification.

**F3080 Black Approval Basis:**

Film held to slightly above FY 1970 approval, pending FY 1971 experience.

While significant deferrals are indicated, AFSPPF can not assume that a \$7,401K total may later be approved. The request exceeded the President's Budget by \$2,401K. Accordingly, further approvals will be selective.

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CONTROL SYSTEM

PROPELLANTS (SAFSP)

FY 1971 Initial Approvals  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>Propellant:</u>		
Corona	\$ 96	\$ 96
Hexagon	620	620
Gambit	1,460	1,460
Straightman	16	16
<div style="border: 1px solid black; height: 40px; width: 100%;"></div>		
Propellants Total	<div style="border: 1px solid black; width: 100%; height: 15px;"></div>	

Identification with individual programs is for cost magnitude purposes. SAFSP has authority to fund for individual programs as appropriate within the Propellants Total.

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CONTROL SYSTEM

MISCELLANEOUS OPERATING (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>P3080 White:</u>		
Miscellaneous Communications	\$ 10	\$ 10
First Destination Transportation	<u>750</u>	<u>(a)</u>
Sub-total	760	10
<u>P3080 Black:</u>		
Petty Cash	<u>3</u>	<u>3</u>
Miscellaneous Operating Total	763	13

(a) First Destination Transportation to be funded directly to AFSC.

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APPLIED RESEARCH/ADVANCED TECHNOLOGY (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>"Within Budget"</u>		
<u>P3600 White:</u>		
<u>Satellite Systems &amp; Miscellaneous Technology:</u>		
Three-Axis ESA Flight Test	\$ 750	0
LOGAOS II Data Processing	100	100
NEW Density Instrumentation	50	50
Precision Horizon Sensor	50	50
Gravity Gradient Sensor	80	0
Momentum Exchange Technology	250	250
Aerospace	<u>1,365</u>	<u>1,365</u>
Sub-total	<u>2,645</u>	<u>1,815</u>
<u>P3600 Black:</u>		
<u>Optical Payload Technology:</u>		
Optical Materials and Design	125	125
Optical Fabrication and Test	520	520
Optical Studies	1,071	600
Optical Processing	210	210
Laser Camera	420	0
General Studies	100	100
Consultant Services	<u>12</u>	<u>12</u>
Sub-total	<u>2,458</u>	<u>1,567</u>
<u>Electronic Payload Technology:</u>		
Antenna Optimization	350	350
COMINT System Studies	300	300
Broadband ELINT Technology	400	200
SIGINT Environmental Studies	120	120
	<u>150</u>	<u>0</u>
Sub-total	<u>1,320</u>	<u>970</u>
<u>Satellite Systems &amp; Miscellaneous Technology:</u>		
Momentum Exchange Technology	100	100
Optical Data Transmission	270	0
Target Capability Study	<u>240</u>	<u>240</u>
Sub-total	<u>610</u>	<u>340</u>
<u>"Within Budget" Total</u>	<u>7,033</u>	<u>4,692</u>

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SAFSP  
Submission

DNRO Initial  
Approval

Addendum Recommendation:

P3600 Black:

Optical Payload Technology:

Cloud Sensor	180	180
Photographic Readout Evaluation	40	Disapproved
Aspheric Surface Measuring Machine Study	60	Disapproved
Ionic Polishing	<u>300</u>	<u>0</u>
Addendum Total	580	180
Applied Research Total, SAFSP	7,613	4,872

With the exception of the disapproved items, all items showing 0 initial approval are subject to further discussion and evaluation, altho fund deferrals can not be considered as necessarily in the same amounts as the submissions.

The Director, Program A, has the authority to reprogram funds between approved line items within but not between the underlined categories (Satellite Systems and Miscellaneous Technology, etc.). This authority does not extend to efforts not specifically approved, new efforts not included in the SAFSP FY 1971 Financial Program submission, nor to increase Aerospace MTS, which are subject to DNRO advance approval.

The monthly Financial Status reports are to reflect all approved line items under the appropriate category headings, and any adjustments based on exercised fund reprogramming authority are to be reflected therein, for after-the-fact notification purposes.

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ADVANCED DEVELOPMENT (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>P3600 White:</u>		
Satellite Systems & Misc. Technology:		
Horizon Sensor/Star Tracker		
Flight Test	\$ 400	\$ 400
<u>P3600 Black:</u>		
Electronic Payload Technology:		
Deployable Antenna	1,348	800
Microelectronic Payload	548	548
Microwave Radar Technology	<u>198</u>	<u>0</u>
Sub-total	2,394	1,348
Advanced Development Total	2,794	1,748

Under Deployable Antenna, the 25' antenna work is deferred pending provision of information to Mr. Davis on gain in SA-2 and SA-3 acquisition probability compared

Microwave Radar Technology is deferred pending resolution of desirability. This also applies to any FY 1970 unobligated balances.

Reprogramming between line items, and new line items not initially-approved, are subject to advance DNRO approval.

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PHOTOGRAPHIC R&D (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>P3600 Black:</u>		
Contract Monitoring	\$ 265	
Color Scanner Study	75	
Color Production Study	150	
Color Film Scanner Breadboard	350	
Color Processor Study	350	
E&W Dupl. Studies	300	
Color Printer Design Study	175	
STP Printer	375	
Low Distortion Printer	350	
Image Evaluation	100	
Study Color Processor Monitoring	150	
Application Assessment	200	
Alternates for Titling	100	
Correlation	<u>60</u>	
 Photographic R&D Total	 3,000	 <u>2,200</u>

The approval total is governing for this account, rather than individual efforts. However, in general color efforts are to be selective and limited, pending over-all color determinations.

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MISCELLANEOUS DEVELOPMENT (SAFSP)

FY 1971 Initial Approval  
(Thousand Dollars)

	<u>SAFSP</u> <u>Submission</u>	<u>DNRO Initial</u> <u>Approval</u>
<u>F3600 White:</u>		
Mission Planning	\$ 50	\$ 50
Aerospace	420	420
Misc. Development Total	470	470

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