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TOP SECRET HANDLE VIA CONTROL STATES



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JUN 2 0 1968

MEMORANDUM FOR MAJOR GENERAL JOHN MARTIN, DIRECTOR, PROGRAM A

SUBJECT: Initial Program Approvals, FY 1969

Initial approvals for program year 1969 are furnished in the attachments. These cover all SAFSP programs except ABM/AES, which will be addressed separately.

While the launch schedule planning basis for FY 1970 and subsequent years, as related to FY 1969 funding approvals, is reflected against applicable programs, these are in some cases subject to optional considerations, which will be addressed in FY 1970 budget guidence.

The initial program approvals herein are on a gross funding basis. To the extent that unchligated FY 1968 and prior year balances exist as of 30 June 1968, the NEO Comptroller will conduct an evaluation with your personnel, to ascertain any appropriate amounts to be applied against the P.Y. 1969 gross approvals.

Signal

ALEXANDER H. FLAX Director

Attachments

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PINANCIAL RECAP. DNRO INTICIAL APPROVALS FY 1969

(Thousand Dollars)

	Missile White	Missile Black	RDT&E White	RDT&E Eleok	Total
CORONA	\$35,057	\$ 650	\$ 750	n n dito	\$ 36,457
HEXAGON	26,129	5,704	67,147	15,867	114,847
CAMBIT	122,424	45,477	1,200	9,345	178,446
SIGINT 770	19,918	25,030			44,948
SIGINT POPPY	12,595	the second and			12,595
SIGINT P-11	6,110	14,250			20,360
Satellite Control					
Facilities	77,134				77,134
AFSPPF	1,384	1,292	2,416		5,092
Vulnerability			3,676	500	4,176
Applied Research/			w y	-	4#
Advanced Technology			4,498	7,175	11,673
Advanced Development			2,900		2,900
Miscallaneous Development			2,087	3,000	5.087
Miscellaneous Operating	663	2.3	***************************************	- Comment - Comm	665.3
TOTAL					

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CORONA Initial Approval. FY 1969

SAFSP Portion (Thousand Dollars)

The DNRO initial approvals are based on the following planned launch schedule:

TOUTHI DOMOGRACO.				
	FY1.968	FY1969	FY1970	FX1971
Launch Reserves	8 6	7 6	6 6	4 2
FY 1969 Costs:				
RDT&E - White: SCF Compatibility				\$ 750
<u> Hissile Procurement - Whit</u> Spacecraft				2,800
Spacecraft Testing, Rec Launch Support C&C Peculiars Thorad Booster	Agrruß, was	LAGB WIC		6,000 600 5,782
Agena BTL Guidance				1,100 1,440
Vulnerability: Mod present Attack Al Booster Launch	arm Reporter	*		(a) 150 7,721
Agena Launch Support Services				8,800 480
Aerospace (4 MTS)				<u>184</u> (b)
Sub-total				35,057
Missile Progurement - Blace DISIC	k :			0 (o) 0 (d)
Systems Engineering Bit Boxes				0 (d) <u>650</u>
Sub-total				650
SAFSP Total				36,457

(a) SAFSP recommendations for Coiled Foil Chaff (\$1,500K) and systems integrating contractor effort for Corona survivability aid (\$1,200K) deferred from approval, pending report results and conclusions.

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CONTROL SYSTEM

- (b) Based on Aerospace allocations for FI 1968 in as of 31 May 68 monthly financial report, Corona is 4 MTS equivalent, and there is no known reason for an increase to 6 in FY 1969. However, see statements under separate sheet on over-all Aerospace.
- (c) Note at bottom of SAFSP sheet on DISIC options that "\$.644 million of FI68 funds have been initiated against above requirements and should be deducted from each option for budgeting purposes." Initial approval effort is based on not flying DISIC on two missions in FY 1969, nor on one or two in FY 1970.
- (d) Systems Engineering at zero new funding, based on SAFSP statement 10 in submission.

The initial approval is based on extended life for both the J-1 and J-3 systems, in lieu of additional system procurement as in Options 2 and 3. The approval inherently includes employing a solar array on J-3 systems, and battery removals. Specific funding approvals for these modifications are deferred, pending an early refinement of development and hardware costs as applicable to FY 1969. Further details on these approaches will be issued.

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HEXAGON Initial Approvals, FY 1969 (Thousand Dollars)

The DNRO initial approvals are based on the following planned launch schedule:

	FY 1971	FY 1972	FY 1973
Launch	4	5	5

This is one launch less in FY 1971 than the SAFSP submission, and is based on an October 1970 first launch.

FT 1969 Costs:

*	
RDT&E - White: Spacecraft	\$31,553
Recovery Vehicle	7,090 (a)
Command Sub-system	1,809
AGE and Pad Activation	22,895
Booster SE/TD	1,500
Âerospace	2.300
Sub-total	67,147
RDT&E - Black:	
Spacecraft	2,827
Recovery Vehicle	1,840 (a)
SI Camera	2,000
SI Integration	5,300
Special Test Equipment	3,100
Bit Box Design and Integration	800 (b)
Precision Attitude Measuring	0 (e)
Sub-total	15,867
- Section of the Sect	
Kissile Procurement - White:	,
Spagecraft	17,166 (d)
Recovery Vehi cle	1,890 (a)
Booster Propellants	1,000
Command Subsystem	4,073
Support Services	1,000
Mission Planning	1,000 (e)
Sub-total	26,129
Offin-CO OFF	20,227
Kissile Progurement - Elsok:	
Spacecraft	3,844
Recovery Vehicle	1,260 (a)
Bit Boxes	600 (b)
Precision Attitude Measuring	_0_ (0)
Sub-total	5,704
SILLS WILL	2, 1V4
SAFSP Total	114,847
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(a) Initial submission was adjusted by SAFSP to these figures in **CHARGE 1867.**

(b) Bit Box development reduced on the assumption that the SBA can provide a telemetry link and probably the tape recorder, and that the more sophisticated Bit Box configuration must be better defined before

approval. Bit Box hardware reduced for the latter reason.

(c) Precision Attitude Measuring deferred from initial approval, pending study results, a specific proposal, and evaluation of requirements.

(d) Spacecraft reduced \$1,000K in accordance with CHARGE 1963.

(e) Mission Planning at \$1,400K in FY 1969 is considered excessive, and is reduced to \$1,000K.

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ANDIE VIA BYR 1940 Control system

GAMBIT Initial Approvals, FX 1969 (Thousand Dollars)

The DNRO initial approvals are based on 8 laumches in FY 1969, and either 5 or 6 successful launches in each of fiscal years 1970 thru 1972 (to be determined). WHIG 7760 is also applicable.

FY 1969 Costs:

RDT&B - White:	
DACS	\$700
SGLS	500
Sub-total	1,200
RDT&E - Black:	
DRM	5,320
R-5' Lens	4,025
Sub-total	9,345
Missils Progurement - White:	
Spacecraft	48,304
Titan IIIB Booster	42,900
Command Subsystem	10,831
Industrial Facilities	235
Recovery Vehicle	6,670
Booster Launch	4,500
Agena Launch	3,024
Support Services	500
Mission Planning	2,700
Aerospace	_2,760
Sub-total	122,424
Missile Progurement - Blacks	
Payload	37,005
Recovery Vehicle	2,900
Cervit	2,668
Class Polishing	1,281
Bit Boxes	650
Movement of Equipment	973
Sub-total	45,477
GAMBIT Total	178,446

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SIGINT 770 Initial Approvals. FY 1969 (Thousand Dollars)

The initial approval is based on the following launch schedule:

STRAWHAN Launches

FY 196

FX 1970 2 <u>FY 1971</u> 1

Note that this is a change from the financial program guidance and the SAFSP cost submission. The approved schedule plans six month separations between launches. No approval for a 6th Strauman is granted at this time;

a reassessment of the Sigint 770 program will be made.

VX 1969 Costs:

Missile Procurement - White:	
Spacecraft	\$10,080
Satellite Control Peculiars	1,000
BTL Guidance	360
Agena Hardware	1,100
Booster Launch	2,520
Agena Leunch	3,300
Support Services	500
Command Generation	250
Trajeutor/Motor Drop	200
Aerospace	608
Sub-total	19,918
Missile Progurement - Black:	
Spacecraft	11,100
Payloads	8,080
MADS	4.450
Mission Planning	1,400
Special Payload	*
Sub-total	25,030
SIGINT 770 TOTAL	44,948

^{*} Specific FY 1969 funding amount to be resubmitted, considering FY 1968 funding applied. The effort, in itself, is approved.

The Trajector/Motor Drop initial approval is \$500K less than the submission, resulting from discussions with SAFSP.

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SIGINT POPPY Initial Approvals, FY 1969 (Thousand Dollars)

The initial approval is based on an anticipated launch slip of vehicle 7106 from November 1968 to about January 1969, vehicle 7107 to be launched 18 months after 7106, 4 Balls and 1 aft-rack P-11 to be carried per POPPY, and launch on Thorad/Agena. This is Option 5 except for timing of launch, and would involve one launch in FY 1969 and one in FY 1971.

FY 1969 Costs:

Missile Progurement - White:	
NRL Payload	\$6,238
Thorad Booster	2,217
Agena	1,100
BTL Guidance	180
Integration	500
Thorad Launch	1,260
Agena Launch	_1,100
POPPY TOTAL	12.595

The NRL submitted costs (\$7,165K) have been reduced by \$500K anticipated FY 1968 carryover, and by \$427K related to analog-to-digital conversion at Adak, deferred for further examination. Costs otherwise were accepted.

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SIGINT P-11 Initial Approvals, FY 1969 (Thousand Dollars)

The DNRO initial approvals are based on the following schedule:

Ride Source	FX69	F770	FY71	FT72	FY73
Corona J-1	3)	•		0 .	0
Corona J-3	0)	4)	. 3	0	0
Рорру		0	1	1	0
Hexagon	_0_	0		_3_	
Total	4	4	4	4	4

The Corona J-3 rides are on the basis of an extended life, solar array program. The combination of J-1's and J-3's in FY 1970 and FY 1971 is dependent on the planned J-1 and J-3 launch schedules to be established. This approach is in lieu of Thorad Senior, Castor or TAT-Burner II options.

FY 1969 Conta:

RDT&E	0 (a)
Missile Procurement - White:	\$5 _* 290
Spacecraft Satellite Control Peculiars	500
Command Generation	100
Aerospace	
Sub-total	6,110
Magila Procurement - Black:	
Payload	12,500
MADS	_1_750
Sub-total	14,250
P-11 TOTAL	20,360

(a) \$100K R&D was recommended by SAFSP for preliminary design on Hexagon, based on 1 ride in FY 1971. Inasmuch as the approved schedule basis defers Hexagon rides to FY 1972, the \$100K has not been initially approved. However, if it is still required in FY 1969 funding, the NRO Comptroller is to be notified. Development costs for solar array modifications for Corona will be charged to Corona.

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Setellite Control Facilities Initial Approvals, FY 1969 (Thousand Dollars)

Missile Progurement - White:

Contractor Manning	\$26,104
Logistic Support	3,814
EXCP/MOD's	3,400
Standard	8,000
Computer Lease/Buy	16,000
Computer Frogramming Integration	7,865
Computer Programming	5,235
Miscellaneous Support	3.450
Sub-total	73,868
Aerospace	_3,266
SCF TOTAL	77,134

- 1. Contractor Manning is approved as submitted.
- 2. Logistics Support and Depot Level Maintenance is reduced \$717K from the submission for the following reasons:
- a. Line Repairable Units for SGLS and new receivers at \$567K disapproved as a charge to this account. Logistic support is not to cover deficiencies in equipment provisioning.
 - b. \$150K for Increased STC-ADS deferred, pending ADS decisions.
- 3. ECP/MDs is reduced \$600K from the submission, on the basis that average experience for the last four years has been at about a \$3,400K rate.
- 4. Standard is reduced \$3,500K from the submission on the following approval basis:

Advanced Planning		\$500K
Configuration and Data		
Management		1,000
Integration and Test Support		4,000
Management Support		1,000
Maintainability		300
Reliability		200
Training	1	450
Operational Procedures		100
Operational Evaluation		0
Personnel Subsystem		450
Total		8,000

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This approval basis is reflected to indicate cause for concern in the "Standard" entry, rather than being a restriction on each effort in the \$8,000% approval. In the event contractual commitments are such that this reduction can not be absorbed entirely, a partial reclama will be considered, but there must also be evidence that actions will be taken in FY 1969 and FY 1970 to reduce the "Standard" effort.

- 5. Computer Lease/Buy is reduced \$1,578K from the submission for the following reasons:
- a. \$230% for Philos C&D procurement is deferred pending ADS decisions.
- b. Maintenance is approved at the \$1,900% shown in the narrative, rather than the \$2,500K shown in the cost table.
- c. The contingency item of \$387K is disapproved at this time. If contingencies materialize, and can not be otherwise covered, additional funding will be considered later.
- d. The following items are deferred for further consideration: Off-Line Data System \$50K, lith UNIVAC computer \$162K, Simulation Equipment \$150K.
- 6. Computer Frogram Integration is reduced \$1,600% from the submission. This is on the basis of accepting the SCF stated minimum support level of \$6,365K less \$500K advance-financed in FY1968 based on a recent reprogramming approval,
- 7. Computer Programming is reduced \$565% from the submission. This is on the basis of accepting the SCF stated minimum level, less \$140% deferred pending ADS decisions.
- 8. Miscellaneous Support is reduced \$1,350% from the submissions, based on past experience. The proposed magnetic tape certification and rehabilitation center is specifically not approved at this time, pending submission of costs, advantages, and cost effects on annual tape purchases.
- 9. Aerospace is reduced \$334K from the submission. It is recognised that some increase over FY 1968 is appropriate in view of new equipments. However, an ingresse of 16 MTS over FT 1968 is unacceptable. The approval is based on 71 MTS at \$46K, altho the MTS cost data reflected several different costs.
- 10. Concern is expressed about several indications that 2 year contracts are in effect. In the face of Special Activities and over-all DOD funding problems and requirements changes, commitments to two year contracts can not be sanctioned. No future contracts for more than one year are to be let without the approval of the DNRO. In fact, those contracts which are to be reviewed or initiated during FI 1969 are to extend thru September 30, 1969

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only, which will then accommodate to an annual October thru September cyale.

11. Funding approvals herein for computer leases or procurements do not obviate the necessity to obtain approvals thru established channels, as appropriate.

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AFSPPF Initial Approvals, FY 1969 (Thousand Dollars)

ROTAE - Whiter

 R&D
 \$1,410

 Corn
 1.006

 Sub-total
 2,416

The R&D portion is \$750K below the submission. Image Analysis at \$200K is deferred, pending assessment of SPPF proposed effort vs. that of others in this area. Development of a compact black—and—white spray processor under Processing is deferred at \$250K pending evaluation as to whether this is an NRP requirement. \$75K for Viscous Developer studies under Photochemistry is deferred, pending evaluation of need. \$125K for development of an Advanced viewer—printer under Film Inspection/Viewing is deferred, pending clarification as to NRP need. \$100K for facility support is deferred pending clarification of requirements and appropriate charges (whether some are minor construction).

Missile Procurement - White:

Equipment 1,174
Film and Chemicals 210
Sub-total 1,384

\$85K for rental of an IBM 1800 Process Control Computer is deferred, pending approval of the computer thru USAF channels.

Hisais Procurement - Back:

Film and Chemicals

1,292

AFSPPF Total

5,092

These funds are approved for the stated purposes furnished in the supporting material. They are not available for C&M deficiencies, minor construction deficiencies, nor new or changes computer requirements properly chargeable elsewhere.

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APPLIED RESEARCH/ADVANCED TECHNOLOGY Initial Approvals, FY 1969 (Thousand Dollars) (SAFSP Portion)

RDT&E - White: Critical Components Applied Technology Exploratory Studies Aerospace (28 MTS) Sub-total	\$2,540 (a) 570 100 (a) 1,288 4,498
Cptical Material and Design Optical Fabrication and Test Atmospheric Limit Studies Critical Components Optical Processing System Studies Readout Exploratory Sub-total	1,900 500 200 1,850 (a) 500 275 (b) 1,400 (a) 550 (a) 7,175
APPLIED RESEARCH TOTAL	11.673

- (a) Approved at less than the SAFSP recommendation, pending examination as to whether further increases are appropriate.
- (b) The Technical Intelligence Systems Study is specifically disapproved for FY 1969.

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ADVANCED DEVELOPMENT Initial Approvals, FY 1969 (Thousand Dollars)

RDT&E -	White:
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Horison Sensor \$800
Fuel Cell and Cryo Tankage 2.100
Sub-total 2.900

RDT&E - Black:

SIGINT Microelectronic Payload

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ADVANCED DEVELOPMENT Total

2,900

(a) Deferred for further examination.

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MISCELLANEOUS DEVELOPMENT Initial Approvals. FY 1969 (Thousand Dollars)

NVISE - White:

Mission Optimisation \$1,535 (a)
Mission Optimisation Aerospace (12 MTS) 552
Sub-total 2,087

NUTEE - Black:

Photographic R&D 3.000

MISCELLANEOUS DEVELOPMENT TOTAL

5,087

(a) Specific approval of the computer costs at \$335K, plus \$1,200K for TRW and General Electric. Evaluation will continue of the appropriate funding for FY 1969. In the meantime, no additional contractor personnel are to be hired nor the level of effort otherwise increased.

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MISCELLANEOUS OPERATING Initial Approval, FY 1969 (Thousand Dollars)

Missile Procurement - White:

SOC Support SCC Aerospace Miscellaneous	Communication	\$653 0 <u>10</u>
Sub-total		KA 1

Missile Procurement - Black:

Petty Cash		•	2_2
Miscellansous	Cperating	Total	665.3

First Destination Transportation will be handled between the NRO Comptroller and Hq AFSC as in the past.

SOC Aerospace is deleted in accordance with WAHOO 2592.

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Aerospace Initial Amprovals, FY 1969 (Thousand Dollars)

These initial approvals are included under the appropriate programs. This summary is to reflect both MTS and funding.

	SAPSP MIS	Recommend Cost	<u>DNRO</u>	Initial Cost
Gorona (P200) Hexagon (P600) Gambit (P200) Sigint 770 (P200) Sigint P-11 (P200)	6 50 60 13 5	\$ 276 2,300 2,760 608 220	4 50 60 13 5	\$ 184 2,300 2,760 608 220
ABM/AES (P600) Vulnerability (P600) Applied Research (P600) Mission Optimization (P600) SOC Support (P200) SAFSP Sub-total	36 7 33 13 5 246	1,656 322 1,518 598 230 11,316	De 6 28 12 0 190*	276 1,288 552 0 8,766*
Satellite Control Facilities Total		_3_600	.21	3.266

^{*} For purposes of discussions and agreements with SAMSO, the deferral for ABM/AES can be added to the initially-approved SAFSP total, resulting in 226 MTS at \$10,422K.

While the approvals have been identified with specific programs as submitted, SAFSP has authority to transfer MTS and costs between programs as it deems appropriate within the 190 MTS and \$8,766K cost initial approvals.

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Agency Approvals, FY 1969 (Thousand Dollars)

For SAFSP information, the Agency is being given FY 1969 initial approvals as follows:

CORONA:	
Camera.	\$4,570
Satellite Recovery Vehicles	2,518
Payload Structures	5,600
Software Development	75
Contingency for Engineering Changes	500
Total	12,963
HEXACON:	
Sensor Subsystem	69,245
P.E. Facilities	3,600
TRA SETS	4,113
P.E. Additional Test Equipment	1.466
Total	78,424

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