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DEPARTMENT OF THE AIR FORCE
DIRECTORATE OF SPECIAL PROJECTS (OSAF)
AF UNIT POST OFFICE, LOS ANGELES, CALIFORNIA 90045REPLY TO
ATTN OF: SP-1

27 May 1966

SUBJECT: HEXAGON Costings

TO: DNRO (Dr Flax)

1. The attached booklet contains HEXAGON costings for the FY 1967 - 1972 time period in response to WHIG 5234. No additional funds will be required in FY 1966 to implement the proposed FY 1967 Financial Plan.
2. WHIG 5234 asked that we provide four costings based on use of either the Titan III D or the Titan III C (less transtage) for two alternative launch schedules. The SSD Titan Office advised us that the Option #1 launch schedule with the Titan III D could not be met because of the time required to compete the solid rocket motors prior to beginning production. Therefore, we have not costed this option. The costs of the other three options are included.
3. We recommend Option #2B, which is the Option #2 launch schedule with the Titan III D and the four-bucket recovery vehicle.
4. Since the HEXAGON project has not been defined completely, the costs are based on the best information presently available and could vary significantly when contractor estimates are received early next fiscal year.



JOHN L. MARTIN, JR.
Brigadier General, USAF
Director

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FY 67-72 Costings

Distribution:

Cy 1 - DNRO (Dr Flax)
Cy 2 - SAFFM
Cy 3 - SP-2 (Col Smith)
Cy 4 -

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HEXAGON

FY 1967 FINANCIAL PLAN
FY 1968 BUDGET ESTIMATE
FY 1969 - FY 1972 PROGRAM REQUIREMENTS

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SECTION III	Military Construction
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	Titan IIID

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FY 1967 FINANCIAL PLAN

PROJECT HEXAGON

Alternative #1A (T-IIIIC less Transtage)

	<u>FY 1967</u>	<u>FY 1968</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>	<u>FY 1973</u>
Buy	0	4	6	6	6	6	6
Launch	0	0	4	6	6	6	6

	<u>FUNDING REQUIREMENTS</u>				<u>TOTAL</u>
	<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	
<u>HARDWARE AND RELATED COSTS:</u>					
<u>WHITE FUNDS:</u>					
Spacecraft - Hdw	.800	4.000	4.000	4.000	12.800
- Launch					0
Titan IIIIC - Hdw	0	12.000	12.000	12.470	36.470
- Launch					0
Mission Planning					0
Aerospace MTS	.400	.450	.400	.450	1.700
Support Services					0
NSA Equipment				.150	.150
TOTAL WHITE	1.200	16.450	16.400	17.070	51.120
<u>BLACK FUNDS:</u>					
Spacecraft	0	.550	0	.550	1.100
S/I Camera	0	.200	.200	.200	.600
Recovery Vehicle					0
TOTAL BLACK	0	.750	.200	.750	1.700
TOTAL HARDWARE AND RELATED	1.200	17.200	16.600	17.820	52.820

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\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

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27 May 1966

PROJECT HEXAGON

Alternative #1A (T-IIIC less Transtage) (Cont)

		FUND REQUIREMENTS				
		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	TOTAL
<u>DEVELOPMENT:</u>						
<u>WHITE FUNDS:</u>						
	SPACECRAFT	5.120	14.000	14.000	14.000	47.120
	AGE and Pad	2.760	2.700	2.700	2.700	10.860
	Booster	2.920	2.500	2.500	2.500	10.420
	TOTAL WHITE	10.800	19.200	19.200	19.200	68.400
<u>BLACK FUNDS:</u>						
	S/I Camera	.900	1.000	1.800	1.800	3.900
	Spacecraft	.800	1.000	1.000	1.000	3.500
	Recovery Vehicle	.500	2.000	2.000	3.000	7.500
	TOTAL BLACK	2.200	4.000	4.800	5.800	16.800
TOTAL DEVELOPMENT		13.000	23.200	24.000	25.000	85.300
 <u>GRAND TOTAL</u>						
	WHITE	12.000	35.650	35.600	36.270	119.520
	BLACK	2.200	4.750	5.000	6.550	18.600
	TOTAL	14.200	40.400	40.600	42.820	138.120

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\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

27 May 1966

PROJECT HEXAGON

Alternative #2A (T-IIIC less Transtage)

	FY 1967	FY 1968	FY 1969	FY 1970	FY 1971	FY 1972	FY 1973
Buy	0	2	6	6	6	6	6
Launch	0	0	2	6	6	6	6

	FUND REQUIREMENTS				TOTAL
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
<u>HARDWARE AND RELATED COSTS:</u>					
<u>WHITE FUNDS:</u>					
Spacecraft - Hdw.	.630	1.500	1.500	2.500	6.130
- Launch	0	0	0	0	0
T-IIIC - Hdw.	0	0	0	4.900	4.900
- Launch	0	0	0	0	0
Aerospace MTS	.400	.450	.400	.450	1.700
Support Services	0	0	0	0	0
NSA Equipment	0	0	0	.050	.050
TOTAL - WHITE	1.030	1.950	1.900	7.900	12.730
<u>BLACK FUNDS:</u>					
Spacecraft	0	0	.055	0	.055
S/I Camera	0	.200	.200	.200	.600
Recovery Vehicle	0	0	0	0	0
TOTAL - BLACK	0	.200	.255	.200	.655
TOTAL HARDWARE AND RELATED COSTS	1.030	2.150	2.155	8.100	13.435

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

27 May 1966

PROJECT HEXAGON

Alternative #2A (T-IIIIC, Less Transtage) (Cont)

	FUND REQUIREMENTS				
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	TOTAL
<u>DEVELOPMENT:</u>					
<u>WHITE FUNDS:</u>					
Spacecraft	4.360	6.000	6.000	7.000	23.360
AGE and Pad Activation	0	0	0	0	0
Booster	0	610	1.000	1.000	2.610
TOTAL - WHITE	4.360	6.610	7.000	8.000	25.970
<u>BLACK FUNDS:</u>					
S/I Camera	.400	1.000	1.000	1.500	3.900
Spacecraft	.200	.800	.800	.950	2.750
Recovery Vehicle	.500	2.000	2.000	3.000	7.500
TOTAL - BLACK	1.100	3.800	3.800	5.450	14.150
TOTAL DEVELOPMENT	5.460	10.410	10.800	13.450	40.120
<u>GRAND TOTAL</u>					
WHITE	5.390	8.560	8.900	15.900	38.750
BLACK	1.100	4.000	4.055	5.650	14.805
TOTAL	6.490	12.560	12.955	21.550	53.555

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

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27 May 1966

PROJECT HEXAGON

Alternative #2B (T-IIID, 3 Segment, 120" SRM)

	FY 1967	FY 1968	FY 1969	FY 1970	FY 1971	FY 1972	FY 1973
BUY	0	2	6	6	6	6	6
LAUNCH	0	0	2	6	6	6	6

HARDWARE AND RELATED COSTS:WHITE FUNDS:

Spacecraft - Hdw.
- Launch
T-IIID - Hdw.
- Launch
Aerospace MTS
Support Services
NSA Equipment

TOTAL WHITE

FUND REQUIREMENTS

	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	TOTAL
Spacecraft - Hdw.	.630	1.500	1.500	2.500	6.130
- Launch	0	0	0	0	0
T-IIID - Hdw.	0	10.000	10.000	11.500	31.500
- Launch	0	0	0	0	0
Aerospace MTS	.400	.450	.400	.450	1.700
Support Services	0	0	0	0	0
NSA Equipment	0	0	0	.050	.050
TOTAL WHITE	1.030	11.950	11.900	14.550	39.330
<u>BLACK FUNDS:</u>					
Spacecraft	0	0	.055	0	.055
S/I Camera	0	.200	.200	.200	.600
NSA Equipment	0	0	0	0	0
Recovery Vehicle	0	0	0	0	0
TOTAL BLACK	0	.200	.255	.200	.655
TOTAL HARDWARE AND RELATED COSTS:	1.030	12.150	12.155	14.700	40.035

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

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PROJECT HEXAGON

Alternative #2B (T-IIID, 3 Segment, 120" SRM) (Cont.)

	<u>FUND REQUIREMENT</u>				
	<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>TOTAL</u>
<u>DEVELOPMENT:</u>					
<u>WHITE FUNDS:</u>					
Spacecraft	4.360	6.000	6.000	7.000	23.360
AGE and Pad Activation	0	0	0	0	0
Booster	5.000	5.000	5.000	4.660	19.660
TOTAL - WHITE	9.360	11.000	11.000	11.660	43.020
<u>BLACK FUNDS:</u>					
S/I Camera	.400	1.000	1.000	1.500	3.900
Spacecraft	.200	.800	.800	.950	2.750
Recovery Vehicle	.500	2.000	2.000	3.000	7.500
TOTAL - BLACK	1.100	3.800	3.800	5.450	14.150
TOTAL DEVELOPMENT	10.460	14.800	14.800	17.110	57.170
<u>GRAND TOTAL</u>					
WHITE	10.390	22.950	22.900	26.100	82.400
BLACK	1.100	4.000	4.055	5.650	14.805
TOTAL	11.490	26.950	26.955	31.810	97.205

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\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

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27 May 1966

PROJECT HEXAGON1. Booster Comparisons.

a. A comparison of the TIIC less transtage and the TIID, 3 segment 120" SRM is as follows:

	<u>TIIC less Transtage</u>	<u>TIID</u>
Non-Recurring Costs		
Booster Development	26.050	49.160
AGE and Pad Activation	28.290	35.880
Military Construction	<u>6.190</u>	<u>5.540</u>
TOTAL	70.530	90.580
Unit Costs:		
Hardware	8.570	7.970
Launch	<u>.760</u>	<u>.760</u>
TOTAL	9.330	8.730

b. Using the ROM cost data upon which this estimate is based, the break-even point between the two boosters is approximately vehicle number 34. Based on Alternative Number 2, vehicle number 34 would be the second launch in FY 1975. The effect of learning (which should reduce unit costs) was not considered in making this comparison.

c. Through the first 33 vehicles, the Titan IIIC less Transtage has the lesser cost. At vehicle number 34, the costs are approximately even. At vehicle number 35, the Titan IIID costs are below those of the Titan IIIC.

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\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

PROJECT HEXAGONBooster Comparisons (Continued)TITIC Loss TranstageTITID 3 Segment 120" SRM

	<u>Non-Rec</u>	<u>Recurring</u>	<u>TOTAL</u>	<u>Non-Rec</u>	<u>Recurring</u>	<u>TOTAL</u>
Vehicle #33	70.53	307.89	378.42	90.58	288.09	378.67
Vehicle #34	70.53	317.22	287.25	90.58	296.82	387.40
Vehicle #35	70.53	326.55	397.08	90.58	305.55	396.13

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\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

27 May 1966

PROJECT HEXAGON

2. AGE and Pad Activation. AGE and Pad Activation costs are included as program non-recurring costs. The costs are based on the assumption that the PAIC 2, Pad 4 will be modified to support HEXAGON and that the pad will not be required for Titan IIIB launches.

a. Titan IIIC less Transtage - Option #1 (First Launch October 1968)

(1) AGE and Pad Activation are estimated to cost:

FY 1967	10.860
FY 1968	<u>27.430</u>
TOTAL	38.290

(2) The costs are based on the following schedule:

AGE	July 1967 - March 1968
Installation and Checkout	Nov 1967 - July 1968

b. Titan IIIC Less Transtage - Option #2 (First Launch March 1969)

(1) AGE and Pad Activation are estimated to cost:

FY 1968	26.170
FY 1969	<u>12.120</u>
TOTAL	38.290

(2) The costs are based on the following schedule:

AGE	December 1967 - August 1968
Installation and Checkout	April - December 1968

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\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

27 May 1966

PROJECT HEXAGONAGE and Pad Activation (Continued)c. Titan IIID, 3 Segment 120" SRM - Option #2 (First Launch March 1969)

(1) AGE and Pad Activation are estimated to cost:

FY 1968	\$24.240
FY 1969	11.640
TOTAL	\$35.880

(2) The costs are based on the same schedule as that shown above for Titan IIIC less Transtage Option #2.

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FY 1967 FINANCIAL PLAN

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PROJECT HEXAGON3. Spacecraft.

a. The costs for the Satellite Basic Assembly (SEA) include the command subsystem, and the estimated costs of the airborne CCIS equipment.

b. The Development costs for the spacecraft are a projection of the development costs incurred developing the GAMBIT/GAMBIT-3 spacecraft. We assumed the development and initial acquisition cost of the HEXAGON spacecraft would be at about the same level as GAMBIT.

4. NSA Equipment.

a. It will be necessary to encrypt communications with the satellite. The amounts shown on this line item are the estimated costs of this equipment.

b. SSD Communications and Electronics state these costs were included in the SSD FY 1967 Cryptologic Financial Plan. If the proposed program remained in the President's Budget, program funds will not be required for this equipment.

5. Mission Planning. We assumed that mission planning, mission analysis, post flight activity, etc., would be required at about the same level as programmed for GAMBIT and GAMBIT-3, which is about \$1.25 million per year. This level will be attained by HEXAGON about FY 1970.

6. S/I Camera. The S/I camera has not been defined. We assumed it would be a camera which costs about the same as that being produced under Project 2599 (Advanced Geodetic System.)

7. Recovery Vehicle. The Financial Plan is based on 4 recovery vehicles per flight. We assumed the film from the S/I camera would be returned in one of the mission recovery vehicles.

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\$ IN MILLIONS

FY 1968 BUDGET ESTIMATE

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FY 1969 - FY 1972 PROGRAM REQUIREMENTS

PROJECT HEXAGON

Alternative #1A (T-IIIC less Transtage)

	<u>FY 1967</u>	<u>FY 1968</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>	<u>FY 1973</u>
Pay	0	4	6	6	6	6	6
Launch	0	0	4	6	6	6	6

	<u>FY 1967</u>	<u>FY 1968</u>	<u>PROGRAM REQUIREMENTS</u>			
	<u>FIN PLAN</u>	<u>BUD. EST.</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>
<u>HARDWARE AND RELATED COSTS:</u>						
<u>WHITE FUNDS:</u>						
Spacecraft - Hdw.	12.800	31.650	28.850	21.000	21.000	21.000
- Launch	0	0	2.200	3.000	3.000	3.000
Titan IIIC - Hdw	36.470	64.550	51.420	51.420	51.420	51.420
- Launch	0	0	3.800	4.560	4.560	4.560
Mission Planning	0	.500	.600	.900	.900	.900
Aerospace MTS	1.700	2.500	3.000	3.000	3.000	3.000
Support Services	0	1.500	2.000	2.000	2.000	2.000
NSA Equipment	.150	.370	.300	.300	.300	.300
TOTAL - WHITE	51.120	101.070	92.170	86.180	86.180	86.180
<u>BLACK FUNDS:</u>						
Spacecraft	1.100	2.700	1.700	1.500	1.500	1.500
S/I Camera	.600	1.600	3.200	4.800	4.800	4.800
Recovery Vehicle	0	7.900	9.600	9.600	9.600	9.600
Post Flight Analysis	0	0	.250	.300	.300	.300
TOTAL - BLACK	1.700	12.200	14.750	16.200	16.200	16.200
TOTAL HARDWARE AND RELATED COSTS	52.820	113.270	106.920	102.380	102.380	102.380

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\$ IN MILLIONS

FY 1968 BUDGET ESTIMATE

27 May 1966

FY 1969 - FY 1972 PROGRAM REQUIREMENTS

PROJECT HEXAGON

Alternative 1A (Titan IIIC less Transtage) (Cont)

	FY 1967 FIN PLAN	FY 1968 BUD. EST	PROGRAM REQUIREMENTS			
			FY 1969	FY 1970	FY 1971	FY 1972
<u>DEVELOPMENT:</u>						
<u>WHITE FUNDS:</u>						
Spacecraft	47.120	30.130	0			
AGE and Pad	10.360	27.430	0			
Booster	10.420	13.020	2.610			
TOTAL WHITE	68.400	70.580	2.610	0	0	0
<u>BLACK FUNDS:</u>						
S/I Camera	3.900	0	0			
Spacecraft	5.500	3.500				
Recovery Vehicle	7.500					
TOTAL BLACK	16.900	3.500	0	0	0	0
TOTAL DEVELOPMENT	85.300	74.080	2.610	0	0	0
<u>GRAND TOTAL</u>						
WHITE	119.520	171.650	94.780	86.180	86.180	86.180
BLACK	18.600	15.700	14.750	16.200	16.200	16.200
TOTAL	138.120	187.350	109.530	102.380	102.380	102.380

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\$ IN MILLIONS

FY 1968 BUDGET ESTIMATE

27 May 1966

FY 1969 - FY 1972 PROGRAM REQUIREMENTS

PROJECT HEXAGON

Alternative #2A (T-IIIC less Transtage)

	<u>FY 1967</u>	<u>FY 1968</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>	<u>FY 1973</u>
Buy	0	2	6	6	6	6	6
Launch	0	0	2	6	6	6	6

	<u>FY 1967</u>	<u>FY 1968</u>	<u>PROGRAM REQUIREMENTS</u>				
	<u>FIN PLAN</u>	<u>BUD EST</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>	
<u>HARDWARE AND RELATED COSTS:</u>							
<u>WHITE FUNDS:</u>							
Spacecraft - Hdw	6.130	19.470	22.800	21.000	21.000	21.000	
- Launch	0	0	1.200	3.000	3.000	3.000	
T-IIIC - Hdw	4.900	72.860	51.420	51.420	51.420	51.420	
- Launch	0	0	2.280	4.560	4.560	4.560	
Mission Planning	0	.200	.500	.900	.900	.900	
Aerospace MTS	1.700	2.500	3.000	3.000	3.000	3.000	
Support Services	0	1.000	2.000	2.000	2.000	2.000	
NSA Equipment	.050	.360	.300	.300	.300	.300	
TOTAL WHITE	12.780	96.390	83.500	86.180	86.180	86.180	
<u>BLACK FUNDS:</u>							
Spacecraft	.055	2.200	2.000	1.500	1.500	1.500	
S/I Camera	.600	1.600	1.600	4.800	4.800	4.800	
Recovery Vehicle	0	4.800	9.600	9.600	9.600	9.600	
Post Flight Analysis	0	0	.150	.300	.300	.300	
TOTAL BLACK	.655	8.600	13.350	16.200	16.200	16.200	
TOTAL HARDWARE AND RELATED COSTS:	13.435	104.990	96.850	102.380	102.380	102.380	

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\$ IN MILLIONS

FY 1966 BUDGET ESTIMATE

FY 1966 - FY 1972 PROGRAM REQUIREMENTS

PROJECT HEXAGON

Alternative #2A (P-ILIC less Transtage) (Cont)

	FY 1967 FIN PLAN	FY 1968 BUD EST	PROGRAM REQUIREMENTS			
			FY 1969	FY 1970	FY 1971	FY 1972
<u>DEVELOPMENT:</u>						
<u>WHITE FUNDS:</u>						
Spacecraft	23.360	47.890	6.000			
AGE and Pad Activation	0	26.170	12.120			
Booster	2.610	13.020	10.420			
TOTAL WHITE	25.970	87.080	28.540	0	0	0
<u>BLACK FUNDS:</u>						
S/I Camera	3.900	0				
Spacecraft	2.750	5.500	.750			
Recovery Vehicle	7.500	0				
TOTAL BLACK	14.150	5.500	.750	0	0	0
TOTAL DEVELOPMENT	40.120	92.580	29.290	0	0	0
<u>GRAND TOTAL</u>						
WHITE	38.750	183.470	112.040	86.180	86.180	86.180
BLACK	14.805	14.100	14.100	16.200	16.200	16.200
TOTAL	53.555	197.570	126.140	102.380	102.380	102.380

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\$ IN MILLIONS

FY 1968 BUDGET ESTIMATE

FY 1969 - FY 1972 PROGRAM REQUIREMENTS

PROJECT HEXAGON

Alternative #2B (T-LLID, 3 Segment, 120" SRM)

	<u>FY 1967</u>	<u>FY 1968</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>	<u>FY 1973</u>
Buy	0	2	6	6	6	6	6
Launch	0	0	2	6	6	6	6

	<u>FY 1967</u>	<u>FY 1968</u>	<u>PROGRAM REQUIREMENTS</u>			
	<u>FIN PLAN</u>	<u>BUD EST</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>
<u>HARDWARE AND RELATED COSTS:</u>						
<u>WHITE FUNDS:</u>						
Spacecraft - Hdw	6.130	19.470	22.800	21.000	21.000	21.000
- Launch	0	0	1.200	3.000	3.000	3.000
T-III - Hdw	31.500	55.740	47.820	47.820	47.820	47.820
- Launch	0	0	2.280	4.560	4.560	4.560
Mission Planning	0	.200	.500	.900	.900	.900
Aerospace	1.700	2.500	3.000	3.000	3.000	3.000
Support Services	0	1.000	2.000	2.000	2.000	2.000
NSA Equipment	.050	.360	.300	.300	.300	.300
TOTAL WHITE	39.380	79.270	79.900	82.580	82.580	82.580
<u>BLACK FUNDS:</u>						
Spacecraft	.055	2.200	2.000	1.500	1.500	1.500
S/I Camera	.600	1.600	1.600	4.800	4.800	4.800
Recovery Vehicle	0	4.800	9.600	9.600	9.600	9.600
Post Flight Analysis	0	0	.150	.300	.300	.300
TOTAL BLACK	.655	8.600	13.350	16.200	16.200	16.200
TOTAL HARDWARE AND RELATED	40.035	87.870	93.250	98.780	98.780	98.780

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\$ IN MILLIONS

FY 1968 BUDGET ESTIMATE

FY 1969 - FY 1972 PROGRAM REQUIREMENTS

PROJECT HEXAGON

Alternative #2B (T-111D, 3 Segment, 120" SRM) (Cont)

	FY 1967 FIN PLAN	FY 1968 BUD EST	PROGRAM REQUIREMENTS			
			FY 1969	FY 1970	FY 1971	FY 1972
<u>DEVELOPMENT:</u>						
<u>WHITE FUNDS:</u>						
Spacecraft	23.360	47.890	6.000			
ACE and Pad Activation	0	24.240	11.640			
Booster	19.660	24.580	4.920			
TOTAL WHITE	43.020	96.710	22.560	0	0	0
<u>BLACK FUNDS:</u>						
S/I Camera	3.900	0	0			
Spacecraft	2.750	5.500	.750			
Recovery Vehicle	7.500	0	0			
TOTAL BLACK	14.150	5.500	.750	0	0	0
TOTAL DEVELOPMENT	57.170	102.210	23.310	0	0	0
 <u>GRAND TOTAL</u>						
WHITE	82.400	175.980	102.460	82.580	82.580	82.580
BLACK	14.805	14.100	14.100	16.200	16.200	16.200
TOTAL	97.205	190.080	116.560	98.780	98.780	98.780

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Control System

BYE 00000-00

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

27 May 1966

PROJECT HEXAGON

Military Construction. Military Construction funds will be required to provide necessary facilities for HEXAGON on either launch option or using either the Titan IIIC or Titan IIID. The costs are based on modifying PAIC 2, Pad 4.

a. Titan IIIC less Transtage - Option #1 (First Launch - October 1968)

(1) Estimated Military Construction Costs are:

FY 1967	\$.560
FY 1968	<u>5.630</u>
TOTAL	6.190

(2) These costs are based on the following schedule:

Establish Criteria	November - December 1966
Design and Review	December 1966 - April 1967
Advertise and Award	April 1967 - June 1967
Construction	July 1967 - March 1968

b. Titan IIIC Less Transtage - Option #2 (First Launch March 1969)

(1) Established Military Construction Costs are:

FY 1967	\$.560
FY 1968	<u>5.630</u>
TOTAL	\$6.190

(2) These costs are based on the following schedule:

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Central System

CIE-00037-03

27 May 1966

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

PROJECT HEXAGONMilitary Construction (Continued)Establish Criteria
Design and Review
Advertise and Award
ConstructionApril - May 1967
May - September 1967
October - November 1967
December 1967 - April 1968c. Titan IIID, 3 Segment, 120" SRM - Option #2 (First Launch March 1969)

(1) Estimated Military Construction Costs are:

FY 1967	\$.300
FY 1968	5.240
TOTAL	\$5.540

(2) These costs are based on the same schedule of events as described for Option #2 using the Titan IIIC.

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Control System

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

DIT-65668-65

27 May 1966

PROJECT HEXAGON

Titan IIIC Recapitulation

		<u>ESTIMATED DELIVERIES</u>	<u>LAUNCHES</u>	<u>ON HAND</u>	<u>FISCAL YEAR FUNDING</u>	
					<u>EQUIV NR.</u>	<u>\$</u>
HEXAGON Alternative #1A	FY 1967	0	0	0	4	
	FY 1968	1	0	1	6	36.470
	FY 1969	5	4	2	6	51.420
	FY 1970	6	6	2	6	51.420
	FY 1971	6	6	2	6	51.420
	FY 1972	6	6	2	6	51.420
HEXAGON Alternative #2A	FY 1967	0	0	0	1	4.900
	FY 1968	1	0	1	6	51.420
	FY 1969	3	2	2	6	51.420
	FY 1970	6	6	2	6	51.420
	FY 1971	6	6	2	6	51.420
	FY 1972	6	6	2	6	51.420

~~TOP SECRET~~Handle via COMINT
Control System

\$ IN MILLIONS

FY 1967 FINANCIAL PLAN

BYE-0007911

27 May 1966

PROJECT HEXAGON

Titan III D Recapitulation

		<u>ESTIMATED DELIVERIES</u>	<u>LAUNCHES</u>	<u>ON HAND</u>	<u>FISCAL YEAR FUNDING</u>	
					<u>EQUIV NR.</u>	<u>\$</u>
HEXAGON	FY 1967	0	0	0	4	31.500
Alternative #2B	FY 1968	0	0	0	6	47.820
	FY 1969	3	2	1	6	47.820
	FY 1970	7	6	2	6	47.820
	FY 1971	6	6	2	6	47.820
	FY 1972	6	6	2	6	47.820

Handle via BYEMAN
Control System