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9 June '64

From: Director, U. S. Naval Research Laboratory
 To: Chief of Naval Operations (Op-92)

Subj: Project POPPY; estimates for FY 65

1. Since the launches of program POPPY overlap into different fiscal years computing the costs estimates for the program is rather involved.
2. It is assumed that the program will continue in FY 65 with a 7105 launch in December 1965 of four satellites similar to 7104. Undoubtedly if the three axis stabilized R and D experiment in 7104 is successful and we are able to adjust the orbits of the two stabilized satellites to a fixed position, then in 7105 the satellites should be considered [redacted]

[redacted] Final plans for this program would be dependent upon the success of the 7104 experiments [redacted] The function of the 7105 program would be two fold, (a) provide general search over fairly wide frequency bands and (b) provide discrete bands of high priority targets for [redacted]

3. Equipment at certain of the field sites should be consolidated in one central location rather than in the two huts to conserve on operating man power. Plans to effect this and the ~~read~~ readout of the data in the field to provide early alert of new signal types as well as give better quality control of end product are ~~planned~~ ^{included.}

4. Early work on encryption of the satellite data and the providing of requisite interfaces will be required in FY 65 also.

5. Using the above areas of effort as the basis for estimates, a total figure of approximately \$6 million will be required in FY 65 for the POPPY program.

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FY 65 COST ESTIMATES FOR PROGRAM "C"
(In thousands of dollars)

		<u>Fabrication</u>	<u>R and D</u>
1. Satellite			
a. 7104 (4 Payloads)		2,400.0	
	NRL's cost accounting does not facilitate breakout of individual payload items. Though there are different sizes of shells, complexity of instrumentation, etc. these are generally not widely divergent in cost.		
b. 7105 (4 Payloads)	<i>Work on Payloads Thru June 1965 only</i>	1,200.0	450.0
	The ELINT requirements for these Satellites have not been defined. The estimates are based on anticipated similarities to previous units.		
c. Cost of Cover Experiment Integration		55.0	
	experiments are receiving other support, however, small costs are incurred in integration.		
	TOTALS	3,655.0	450.0
	COMBINED TOTAL	4,105.0	
2. Systems Test and Support		120.0	
	This covers the majority of the costs incurred at the Launch Site.		
3. Digitized Hardware			
R and D			300.0
Experimental Flight Units		150.0	
	Digitizing development work will be going on concurrent throughout this Fiscal Year.		
4. Ground Station Costs			
a. Fabrication and Updating		525.0	
b. Quality Control for Product		375.0	
c. R and D on Signal Analysis			125.0
d. Facilities Consolidation		300.0	
	TOTALS	1,200.0	125.0
	Improved monitoring of the Station's tapes to improve the product (Quality Control) and consolidation of facilities to reduce the number of operators as well as updating will be the major efforts.		
	OVERALL TOTAL	6,000.0	825.0
	GRAND TOTAL	5,125.0	825.0

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