

BYE-059314-94

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AUGMENTATION OF PROGRAM C FOR OCEAN SURVEILLANCE

1. The program for "Augmentation of Program C for Ocean Surveillance" was initially proposed by Director of Program C in June 1970; it was subsequently reviewed by NSA and then resubmitted by Director of Program C as reference (b). Initial funding approvals were authorized by reference (c) in the amount of \$1220.5K with the [] portion of the proposal being deferred to FY-72.
2. Information provided in the table of this enclosure presents both the current year summary and the financial program for FY-72 and FY-73 for this "Augmentation" effort. It includes an interrogation complex for [] as detailed in Director Program C memo to DNRO on 5 Nov 70, BYE-66442-70. It includes the A-to-D system and the PDE development detailed in Director Program C memo to DNRO of 5 Nov 70, BYE-77449-70. In addition to these items there is included a more realistic estimate of the NRL salary and overhead and the Misc. Mats., Travel and Shipment associated with this effort. In accordance with the guidance of references (e) and (f) the Operating and Maintenance costs for the "New or Replacement" systems are itemized for each site by fiscal year, and explained in the note at the bottom of this page.
3. Proposed for FY-73 is a program for procuring and deploying two SEL Model 86 "second-generation" computer systems for the Pacific arena; one for []. In addition to these processing systems there is also proposed a development program for adding the antenna scan and time-difference capability to the PDE hardware system and the software burden for accommodating these developments.

NOTE: Breakdown of Item III.B. from the cost details on the next page, using the table at the bottom, starting with the first line the explanations follow:

- Line #1 = No FY-71 O&M Costs for New and/or Replacement Equipment
- Line #2 = No FY-71 O&M Costs for New and/or Replacement Equipment
- Line #3 = No FY-71 O&M Costs for New and/or Replacement Equipment
- Line #4 = \$30K & \$18K are for the SEL-86 O&M costs for FY-72, \$10K for [] shown in BYE-66442-70
- Line #5 = \$30K & \$30K are for two SEL-86 computers in Pacific in FY-73
- Line #6 = \$10K @ [] are for the O&M burden of the Card Reader and Remote Terminal for the SEL-86

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Encl (3) to NRL memo
7920-145:RDM:mab
BYE-51903-71

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(21)

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AUGMENTATION OF PROGRAM C FOR OCEAN SURVEILLANCE

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AUGMENTATION

FY-71

FY-72

FY-73

I. SPACECRAFT (Development, Recurring)			
A. ELINT Payload			
B. Command/Control			
C. Telemetry			
D. R.F. Systems			
E. Power Supply			
F. Attitude Control			
G. Station Keeping			
H. NRL Salaries & Overhead			
I. Misc. Mat., & Travel			
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II. GROUND STATION (Development/Invest.)			
A. Electronic System	\$ 70.9K	\$ 622.0K	\$ 800.0K
B. Antenna Systems			
C. NRL Salaries & Overhead	21.5	60.0	120.0
D. Misc. Mat., & Travel	1.5	41.1	175.0
E. A-to-D Systems	999.0	141.0	1485.0
	<u>\$1092.9K</u>	<u>\$ 864.1K</u>	<u>\$2580.0K</u>
III. GROUND STATION (Operating)			
A. Current System, O&M			\$ 57.0K
B. New & Replacement		\$ 58.0K*	90.0*
	---	\$ 58.0K	\$ 147.0K
IV. FACILITIES (Investment)	---	\$ 49.0K	---
V. SERVICES (Operational)			
A. Contractor Services	\$ 80.0K	\$ 90.0K	\$ 100.0K
B. Computer Services	\$ 80.0K	\$ 90.0K	\$ 100.0K
	<u>\$ 80.0K</u>	<u>\$ 90.0K</u>	<u>\$ 100.0K</u>
FY Totals	<u>\$1172.9K</u>	<u>\$1061.1K</u>	<u>\$2827.0K</u>
Approvals	<u>\$1220.5K</u>		
Carryover	\$ 47.6K	-\$ 47.6K	
Proposed Budget		<u>\$1013.5K</u>	<u>\$2827.0K</u>

*Breakdown of III.B. (See text for explanation)

							State	FY
							College	Total
TOP SECRET						HANDLE VIA BYEMAN		
						CONTROL SYSTEM ONLY		
FY-72	30.0			10.0			18.0	58.0
FY-73		30.0	30.0					90.0