05026142		Approved for	а) Release: 2024/06/12 C05026	TAP CE	ODET FADDOD
		to Nico	1 (010,000). 202 1/00/12 000020	· Or / Arr	
	Ur aluk	RS	EAS SITE AUGMENTAT		HANDLE VIA BYEMAN ONTROL SYSTEM ONLY
		commended au PY ground fa		three exig	ting Navy
;			indicates 10A computer to shable Data Extr ê c	a	ate deploy- nd the to
1 .			The addition	nal	computer
	computer, a	at which timuse in a CON	e the SEL 810A wou US facility. Afte tion, including de	lld be returer on-site	rned to check out 🥢 🚈
	items as me made either	an time bet	ween failures, the the other SEL 810A	decision at	
	an integral	part of th	e processing facilent augmentation,	ity at eacl	n location.
• · · · · · · · · · · · · · · · · · · ·	Site	Equ	ipment	A yes	· .
			ishable Data Extra Model 86	ctor, SEL 1	Model 810A,*
· •		1	ishable Data Extra ishable Data Extra		
~ .		orary deplo	yment of existing Model 86	equipment,	pending
·			ability to be deri terms of processin		
:	<u>Site</u> .	National	<u>Ocean</u>	Surv NSA	(Cost effect on)
		Increased		1000%	Reduced

Site .	National	0cean	Surv NSA	(Cost effect on)
	· · · · · · · · · · · · · · · · · · ·		•	
	Increased	400% Incr.	1000%	Reduced
	Increased	80% (Approx) Incr.	808	No change
	Increased	80% (Approx) Incr.	80%	No change

is derived from The increased capability for increased computer capacity, coupled with digital formatting accomplished by the Perishable Data Extractor (PDE). example, utilizing the Model 86 permits processing of X-band signals within approximately 50 minutes after intercept, with additional locations becoming available approximately at one oreservations minute intervals. This compares with the maximum attainable processing capability in X-band, utilizing existing equipment, of 9 hours, with additional locations at intervals of approximately 10 minutes. Increased collection capability is recommended, and can be obtained by optimizing frequency band assignments in mission 7107, by employing the fifth spacecraft of mission 7107 for providing certain operational capabilities in the ocean surveillance arena, by utilization of the third transmitter in each of the four primary spacecraft for ocean surveillance, and by including S-band coverage in the X-band pair. This combination of improve-

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY ments Scould Linereas

llection opportunity by 40 - 50 percent.

3. The cost, both one time, and recurring, of adopting this proposal is summarized below:

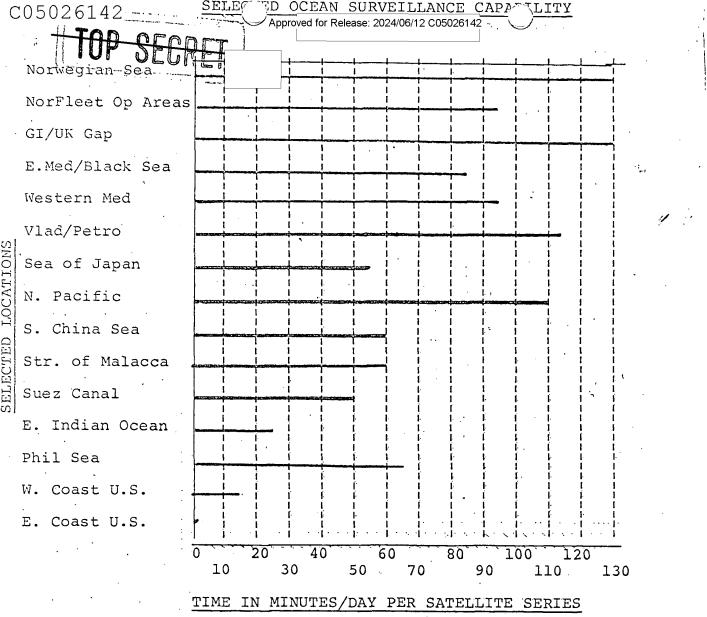
Α.	One Time Cost Equipment	FY71 F 1173	r	FY73 F	· • •	FY75 1173* 2. (cen)	TOTAL 1173 (3519)*
В.		*	•				1 1
	(Recurring) Personnel Equipment	84 33	33	33	33	33	84 165
	TOTAL	1075 K	33 K	33 K L206) *	33 №	33√ (1206)*	# 1422 K(3768) *

* After evaluation of SEL Model 86 at it is recommended that consideration be given to deployment of a SEL Model 86 at in FY 73, and in FY 75.

Advantages of implementing this proposal, from a cost standpoint, are that initial costs are small, and additional annual recurring costs are negligible.

4. Personnel required to implement the recommended augmentation are 15 enlisted personnel at who would be utilized to man the augmented SEL 810A. If the decision were made to redeploy both SEL 810A's to CONUS, the CCP billet structure now existing at would be unchanged. If the decision were made to keep one SEL 810A at as redundant equipment, the 15 augmented billets would be required on a continuing basis.







- 60-130 Minutes RED

15-60 Minutes GREEN

BLUE 0-15 Minutes

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C05026142

FUNDING (FY-71)

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

SITE

RECOMMENDED FUNDING AUTHORITY 1,2 NSA

Equipment

SEL 810A-Ship/re-ship

24,000

SEL 86

Computer, including shipment and install 858,000

Software

115,000

PDE

50,000

Personnel

42,000*

42,000*

Recurring Costs Equipment O&M

11,000

*Personnel required should be derived from billets currently Recommend combination of voluntary one year extensions, and absorption from forced reduction in other assigned missions at

Equipment

PDE

50,000 .

Recurring Costs Equipment O&M

11,000

- Equipment

PDE

50,000

Recurring Costs

Equipment O&M

11,000

TOTALS

\$116,000

\$257,000

\$891,000

1Recurring costs for equipment O&M in succeeding Fiscal Years should be borne by NRO and included in annual 770C budget.

²Costs for SEL 86 computers for should be borne by NSA as improvement to total POPPY processing system.



HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

TOP SECRET

OCEAN SURVEILLANCE FACILITY CONTROL SYSTEM ONLY

1. Summary. The desirability of obtaining an ocean surveillance processing and training facility on the east coast of the continental United States has been examined. The facility has been determined to represent a valid requirement, due in large measure to the lack of coverage of known ballistic missile hold areas for Soviet SSBN's, the increasing scale of Soviet surface unit deployments into this area, and the necessity for establishing a training facility to standardize operating procedures, and to relieve operational units of the necessity of conducting large scale on the job training. A careful survey of available facilities on the East Coast indicates an optimum location at

This decision was influenced by the following factors: availability of support and security facilities; availability of communications; low RFI; and maximum coverage of the major threat areas.

Total cost of this facility is \$1,462,000, itemized as follows:

Non-recurring - \$372,000* 165/158 Building - \$815,000

Recurring

Personnel - \$250,000 Equipment O&M - \$ 25,000

*Predicated on acquiring new equipment, refurbishing equipment from and utilization of the SEL 810A currently deployed to Command and interrogation functions will be accomplished from the engineering facility.

Personnel necessary to provide a cadre for training, and to man the operational site, total 1 officer and 42 enlisted personnel, as itemized below:

Officer in Charge
Material Maintenance Men (5)
Digital Processors (6)
Collection Operators (16)
Collection Supervisors (4)
Analogue Pre-processing/ (4)
and analysis
Senior supervisor/analysts (3)
Training supervisors (4)



TOP SECRET TANGE

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

JIPMENT

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

PRIM + SEC

290-158

The following primary listing of equipment would be Some of the equipment, such as available at the 810A computer, would be acquired from equipment would be refurbished; still other equipment must be acquired new.

Digital

SEL 810A computer mainframe /TM-ll digital tape transporters/ Magnetic tape control unit Moveable head disc Fixed head disc and controller Analex Line Printer Graphics display console High speed paper tape reader/punch Paper tape spooler X-Y plotter Perishable Data Extractor 50% Support Spare Package ...

Sub-total - \$165,000

Analog 🔞 🤇

CEC GR 2800 analog tape recorder Tektronics 565 oscilloscope (w/3al PI) Distribution Amplifier (DA-1) CEI speaker ESL pulse rate synthesizer Video disc recorder Brush Oscillographic recorder (8 ch) Astrodata 6200 time code translator Electronic counter HP 5216A 1 Test oscillator HP 204C Timing generator Tek 184 Audio signal monitor AMO1 Oscillographic recording camer Poloroid manual Support spare package

Sub-total - \$158,000 >

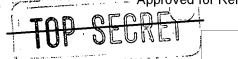
Flooring, air-conditioning, installation, and incidental costs

> Sub-total - \$ 49,000 and the state of

TOTAL - \$372,000

CONTROL SYSTEM ONLY

HANDLE VIA BYEMAN



2. Coverage. Unique coverage provided by a ground processing facility at for selected geographic areas is provided below:

.

Cuba: 30-50 minutes per day Mid-Atlantic: 50-80 minutes per day

Soviet SSBN Patrol: 50-100 minutes per day
Panama Canal: 10-30 minutes per day

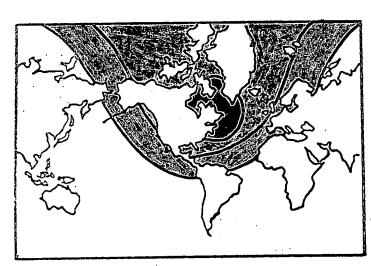
Coverage obtained both from

by particularly in those areas of primary strategic importance; ie, SSBN patrol areas, choke points, areas through which Soviet surface and sub-surface units must pass for out of area deployments, and major operating areas. Specifically, the coverage from in minutes per day POPPY satellite series, is as shown.

RED - 100 plus minutes

GREEN - 30-100 minutes

BLUE - 0-30 minutes





HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

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TON CECOET	SCHE	DULE		514
*SITE CONSTRUCTION	pecision - Begi	n Construction	complete-	
PERSONNEL		CP Submission- Approva	Ident, Report	_ i
EQUIPMENT			Train	CAP
SEL 810A	<i>y</i>			NAT.
Refurbish		Refurbish	3 ¹	KInstall & A
Refurbish		Refurbish	Ship	Install Checkout
Order New Equipment			Order-	Release:
				2024/06/
	Sep 70	Jan 71 Apr 71	· ·	ug 72 Oct 052
				N

*Pacing Factor



HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

TUNDING

HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

1. As indicated in ph 1 above, non-recurring funding totals \$1,187,000, while recurring funding total \$275,000. The following funding is recommended:

Non-recurring

Equipment - \$372,000 - NSA Building - \$815,000 - Navy

Recurring

Personnel - \$250,000 - To be shared equally between

NSA and Navy (direct support

assets)

Equipment O&M - \$25,000 - NRO

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