1

TOP SECRET

DECISION UNIT OVERVIEW NATIONAL RECONNAISSANCE PROGRAM P-989

Goal:

To provide a continuing satellite reconnaissance capability to collect technical and operational ELINT.

Major Objectives:

To be responsive to the USIB "Guidance to the National Reconnaissance SIGINT Program (FY 77-81)" objectives by providing worldwide, general ELINT search and operational and technical ELINT collection. Specifically, the primary intelligence objectives are to provide general search and EOB data from emitter frequencies above 2.0 GHz and radar parameter measurement for frequencies above 8.0 GHz.

Current Method of Accomplishing the Major Objectives:

P-989 consists of a series of several independently-operatin	ng. low-orbiting (275-340 NM altitude)
satellites.	
	All P-989 satellites are carried
into orbit on HEXAGON. All are built within a basic payload	
Individual satellites provide emitter geolocation, and may b	be operated in a store-and-dump mode,
or transpond mode over preselected bands of frequencies.	

Alternatives:

P-989 systems (URSALA/RAQUEL) are the only overhead ELINT systems providing high-sensitivity frequency coverage from 8-18 GHz. Though all overhead systems have mechanisms to redirect tasking within a short period, only the P-989 collectors have the ability to cover any area of the world. A future alternative is a concept for performing the aggregate low-orbit mission with an advanced satellite series which would utilize high-altitude satellite relay and operate



Approved for Release: 2024/08/05 C05098601

CONTROL NO BYE-13000-77 COPY OF COPIES PAGE 146 OF PAGES

25X1

with a	This alternative is currently being studied for
implementation in the mid-1980s in cor	nsonance with the Post-1980 ELINT System Configuration
Study, which is discussed in a Special	1 Report.

Accomplishments:

The P-989 program has provided several "firsts" in overhead SIGINT collection. Among the most significant are:

- 1. The first SIGINT collection system with worldwide area coverage.
- 2. The first single-satellite system with each vehicle capable of providing data collection for geolocation of emitters and other emitter-parameter measurements.

Contractual activities have supported the continued operation of the P-989 vehicles currently on orbit and the definition of the next satellites. A Special Report describes the configuration of the next satellite, FARRAH.

In March 1978, RAQUEL 1A (R-1A) will be available for launch. The fabrication of an EHF (26-42 GHz) SIGINT Pallet, LORRI, has continued towards its planned launch in March 1980. URSALA 4 (U-4) has been available as a backup to U-3. P-989 satellites have provided intelligence support in field exercises to test the use of rapidly-processed satellite ELINT data. These exercises, Special Project GALLANT SHIELD in 1975; and Special Project BOLD EAGLE and USAFE exercise COLD FIRE in 1976 revealed that satellite-derived ELINT could provide a rapid reconnaissance capability which would aid in targeting in the tactical area of interest.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYEMAN I EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11855 EXEMPTION CATE
GORY 580 DECLASSIFY ON IMP DET

Approved for Release: 2024/08/05 C05098601

CONTROL NO BYE-13000-77
COPY OF COPIES
PAGE 147 OF PAGES

DECISION PACKAGE SUMMARY NATIONAL RECONNAISSANCE PROGRAM P-989

L1	(minimum))
	/	۲

Maintain	R-1,	R-1A,	U-3 ar	nd U-4 ope	eratio	ns, pro	ovide	two a	ıdditiona	ıl sa	atellites	for o	one 1	aunch
at least	every	y three	years	, define	an ad	vanced	system	n and	change	the	frequency	rang	ge of	URSALAs
from 2-12	2 GHz	to $4-1$.8 GHz	starting	with	URSALA	5.							

L2

Provide additional satellites for alternating operations of URSALAs and RAQUELs and provide /ELV-compatible capability starting with U-6 in FY 85.

L3

Provide PCM data encryption for RAQUELs and URSALAs.

L4

Provide on-board data processing for URSALAs starting with U-5.

L5 (current)

Provide FARRAHs instead of additional URSALAs or RAQUELs to launch at least one every two years; PCM data encryption, a technical intelligence capability and bandwidth compression for FARRAHs and ELV-compatible F-3 in FY 85.

25X1

L6

Provide on-board data processing for FARRAHs.

L7

Study and fund protect ____/ELV-compatible, advanced system with acquisition starting in FY 80 for a capability in FY 84.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYEMAN 1 EXEMPT FROM GENERAL DECLASSIFICATION SCHEDULE OF EXECUTIVE ORDER 11652 EXEMPTION CATE

Approved for Release: 2024/08/05 C05098601

CONTROL NO_BYE-13000-77

PAGE 148 OF PAGES

Package 1 of 7 (minimum)

DECISION PACKAGE L1 NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

Maintain R-1, R-1A, U-3 and U-4 operations, provide two additional satellites for one launch at least every three years, define an advanced system, and change the frequency range of URSALAs from 2-12 GHz to 4-18 GHz starting with URSALA 5.

Resource Requirements: (Dollars in thousands)

	FY 77	<u>FY 78</u>		This Package	Cumulative Total
Activity	17,300	22,500		32,400	32,400
Total Obligation Authority	17,300	22,500		32,400	32,400
				16	
Five-Year Estimates:	<u>FY 79</u>	FY 80	<u>FY 81</u>	FY 82	FY 83
Activity	32,400	19,900	18,700	27,900	21,700
Total Obligation Authority	32,400	19,900	18,700	27,900	21,700

Short-term Objective(s):

To continue R-1A, U-3, U-4 operations, launch R-1A in March 1978, provide the EHF SIGINT pallet, LORRI, with a launch planned in March 1980, the acquisition of an additional satellite for a FY 81 launch, and activities associated with the definition of an advanced, low-orbit system.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYMAN 1 EXEMPLE FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11552 EXEMPTION CATE
GRAY AND DECLASSIFICATION SCHEDULE
GRAY AND DECLASSIFICATION SCHED

CONTROL NO <u>BYE-13000-7</u>7

COPY OF COPIES

PAGE 149 OF PAGES

Impact on Major Objectives:

This package provides for the continuation of the current configurations until an advanced collector is available.

Other Information:

The zero-funding implications for this program in FY 79 are that a new vehicle start would not be initiated in FY 78; the program would be terminated in FY 79 with the completion of U-3 operations.

This package does not provide for satisfaction of multiple ELINT collection objectives as does the current-level package. Continuation of the program at this level would not provide for developments which would exploit the full potential of one-satellite operations.

Launches must be coordinated with the HEXAGON program, and are dependent on the HEXAGON schedule.

Without an extension in URSALA frequency coverage from 12 GHz to 18 GHz there would be a major impact on requirements satisfaction.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SEGRET

CLASSIFIED BY BYEMEN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652 EXEMPTION CATE
GONTY SED DECLASSIFY OR INP DET

Approved for Release: 2024/08/05 C05098601

CONTROL NO <u>BYE-13000-7</u>7

COPY_____ OF ____ COPIES

PAGE 150 OF _____ PAGES

P-989 DECISION PACKAGE L1

FEATURES	ITEMS	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83
- Maintains the current system - Provides two additional satellites for one launch at least every three years - Changes the frequency range of URSALA from 2-12 GHz to 4-18 GHz starting with URSALA 5	U-3 R-1A U-4 U-5/R-1B U-6/R-1C LORRI	Δ			 1			<u> </u>
DOLLARS (IN MILLIONS)	ACTIVITY TOA	17.3 17.3	22.5 22.5	32.4 32.4	19.9 19:9	18.7 18.7	27.9 27.9	21.7 21.7

LEGEND

♦ ACQUISITION DECISION

• START ACQUISITION

△ _ _ AVAILABILITY OR IOC

A LAUNCH OR FOC

MISSION DURATION

HANDLE VIA BYEMAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

CONTROL NO BYE-13000-77 COPY OF COPIES PAGE 15bf PAGES

Package 2 of 7

DECISION PACKAGE (L2) NATIONAL RECONNATSSANCE PROGRAM P-989

Activity Description:

<u>Provide</u> additional satellites for alternating operations of URSALAs and RAQUELs, and provide $^{\prime}$ ELV-compatible capability starting with U-6 in FY 85.

Resource Requirements: (Dollars in thousands)

	FY 77	FY 78		FY	
				This Package	Cumulative Total
				rackage	Total
Package L1	17,300	22,500		-	32,400
Activity	and and a second	500		(1,600)*	(1,600)
Total Obligation Authority	17,300	23,000		(1,600)*	30,800
Five-Year Estimates:	FY 79	FY 80	FY 81	FY 82	<u>FY 83</u>
Package Ll	32,400	19,900	18,700	27,900	21,700
Activity	(1,600)*	10,200	_6,700	3,000	19,000
Total Obligation Authority	30,800	30,100	25,400	30,900	40,700

*This package assumes change of URSALA frequency range starting with URSALA 5. Negative value results from procurement of R-1B, which is a duplicate R-1A without change to frequency range.

HANDLE VIA
BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYEMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE O
EXECUTIVE ORDER 11652 EXEMPTION CATE
GODY SES DECLASSIES ON LINE OF

CONTROL NO BYE-13000-77
COPY OF COPIES
PAGE 152 OF PAGES

25X1

Short-term Objective(s):

To continue the acquisition of R-1B for a March 1981 launch, fabrication of the EHF SIGINT Pallet, LORRI, with a launch planned in March 1980. Initiate contractual activities for the procurement of U-5 which is planned for launch in March 1982, and activities associated with the definition of an advanced, low-orbit system.

Impact on Major Objectives:

An alternating URSALA/RAQUEL mix would, in addition to general ELINT search and operational ELINT collection, provide for technical ELINT collection. The primary impact on major objectives are potential coverage gaps. Coverage gaps of up to one year in technical ELINT collection and up to six months for the general ELINT search and operational ELINT collection are anticipated. Technical ELINT and additional frequency coverage from 12 GHz to 18 GHz will be provided.

Other Information:

This package does not provide both technical and general/operational coverage on a continuous basis as does the current-level package.

Launches must be coordinated with the ${\tt HEXAGON}$ program and are therefore dependent on the ${\tt HEXAGON}$ schedule.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

CLASSIFIED BY BYMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 1952 FXEMPTION CATE
GORY SHIP DECLASSIFI ON IMP DET

Approved for Release: 2024/08/05 C05098601

CONTROL NO <u>BYE-13000-77</u>

COPY ____ OF ___ COPIES

PAGE 1530F ___ PAGES

P-989 DECISION PACKAGE L2

FEATURES	ITEMS	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83
- Maintains the current system - Provides additional satellites for alternating operations of URSALAS and RAQUELS - Provides an STS/ELV-compatible U-6 in FY 85	U-3 R-1A U-4 R-1B U-5 R-1C U-6 LORRI	△ 		-			•	•
DOLLARS (IN MILLIONS)	ACTIVITY TOA	0 17.3	0.5 23.0	(1.6) 30.8	10.2 30.1	6.7 25.4	3.0	19.0 40.7

LEGEND

♦ ACQUISITION DECISION

• START ACQUISITION

△ _ _ AVAILABILITY OR IOC

▲ LAUNCH OR FOC

MISSION DURATION

HANDLE VIA BYEMAN-TALENT-KEYHOLE

CONTROL NO BYE-13000-77 COPY OF COPIES PAGE 154 OF PAGES

Package 3 of 7

DECISION PACKAGE L3 NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

Provide Pulse Code Modulation data encryption for RAQUELs and URSALAs with all payload digital downlink data to be encrypted.

Resource Requirements: (Dollars in thousands)

•	<u>FY 77</u>	FY 78		FY 7 This Package	9 Cumulative Total
Package L2	17,300	23,000		-	30,800
Activity		800		2,400	2,400
Total Obligation Authority	17,300	23,800		2,400	33,200
Five-Year Estimates:	FY 79	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>
Package L2	30,800	30,100	25,400	30,900	40,700
Activity	2,400	2,600	1,400	1,200	500
Total Obligation Authority	33,200	32,700	26,800	32,100	41,200

Short-term Objective(s):

Effective with the FY 78 contract start for the next satellite, to include encryption on the digital downlink.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11887 EXEMPTION CATE
GORY 589 DECLASSIFY ON JMP DET

CONTROL NO BYE-13000-77
COPY____OF___COPIES
PAGE 155_OF____PAGES

Approved for Release: 2024/08/05 C05098601

TOP SECRET

Impact on Major Objectives:

This package partially satisfies communications security (COMSEC) policy established by the DCI for future satellite system procurement but does not fully satisfy the intent of this policy, in that total COMSEC protection is not provided. That policy calls for COMSEC measures to be applied to command uplinks, telemetry downlinks, and mission-data downlinks of all satellite intelligence collection systems. This package does not provide for encryption of the command uplink, telemetry downlink, and analog-mission data downlink (RAQUEL).

The DCI policy applies to all system acquisitions placed on contract beginning in FY 79. This package provides an interim measure of protection to prevent compromise of the primary payload downlink data.

HANDLE VIA BYEMAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

Approved for Release: 2024/08/05 C05098601

CONTROL NO BYE-13000-77 COPY___OF__COPIES

PAGE 156 OF __ PAGES

TOP SECRET

Package 4 of 7

DECISION PACKAGE L4 NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

Provide on-board data processing starting with U-5, to provide compressed, processed data suitable for tape recording or narrow-band transponding for a read-out capability to support operational commanders directly.

Resource Requirements: (Dollars in thousands)

	<u>FY 77</u>	FY 78		This Package	79 Cumulative Total
Package L3	17,300	23,800		-	33,200
Activity	0	1,700		4,500	4,500
Total Obligation Authority	17,300	25,500		4,500	37,700
Five-Year Estimates:	FY 79	<u>FY 80</u>	FY 81	FY 82	FY 83
Package L3	33,200	32,700	26,800	32,100	41,200
Activity	4,500	2,300	700	1,800	1,000
Total Obligation Authority	37,700	35,000	27,500	33,900	42,200

Short-term Objective(s):

Effective with the FY 78 contract start for U-5, to incorporate an on-board computer for on-board data processing.

HANDLE VIA
BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

CLASSIFIED BY BYEMAN 1 EXEMPT FROM GENERAL DECLASSIFICATION SCHEDULE OF EXECUTIVE ORDER 14552 EXEMPTION CATE GORY 587 DECLASSIFY ON IMP DET

CONTROL NO <u>BYE-13000-7</u>7

COPY____OF___COPIES

PAGE 157. OF____PAGES

Impact on Major Objectives:

This package enhances the operational ELINT collection objective by providing for real-time operational support to commanders by incorporating an experimental, narrow-band, data-read-out capability on URSALA for use with a real-time, intelligence-processing (RTIP) van deployed to selected areas where operational support is desired.

This package provides the opportunity to attain major improvements in operational support by transmission of satellite data directly to field units. It provides for significant contributions to a high-priority NFIB requirement which calls for tactical support to commanders.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY HYMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 1165Z EXEMPTION CATE

Approved for Release: 2024/08/05 C05098601

CONTROL NO BYE-13000-77
COPY OF COPIES
PAGE 158 OF PAGES

Package 5 of 7 (current)

DECISION PACKAGE L5 NATIONAL RECONNATSSANCE PROGRAM P-989

Activity Description:

Provide FARRAHs instead of additional URSALAs or RAQUELs to launch at least one every two years; Pulse Code Modulation data encryption, a technical intelligence capability and bandwidth compression for FARRAHs, and ELV-compatible with F-3 in FY 85.

25X1

Resource Requirements: (Dollars in thousands)

	FY 77	FY 78		This Package	79 Cumulative Total
Package L2	17,300	23,800		****	33,200
Activity	0	1,800		3,000	3,000
Total Obligation Authority	17,300	25,600		3,000	36,200
Five-Year Estimates:	FY 79 33,200	<u>FY 80</u> 32,700	FY 81 26,800	FY 82 32,100	FY 83 41,200
Package L2 Activity	3,000	(4,000)*	3,700	(900)*	(6,500)*
Total Obligation Authority		28,700	30,500	31,200	34,700

^{*}Negative values result from difference in phasing of procurement of FARRAH satellite.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

CLASSIFIED BY BYMAN 1 EXEMPT FROM GENERAL DECLASSIFICATION SCHEDULE OF EXECUTIVE ONDER 11652 EXEMPTION CATE GODY 469 DECLASSIF VAN INFO DET

Approved for Release: 2024/08/05 C05098601

Short-term Objective(s):

To continue the acquisition of F-1 initiated during FY 78 toward a March 1981 launch.

Impact on Major Objectives:

The current program stresses the unique capabilities of the P-989 satellites and provides one-satellite (FARRAH) satisfaction of those objectives which are most economically and effectively accomplished by low-altitude ELINT satellites. The FARRAH satellites will provide features such as 2-18 GHz frequency coverage, technical intelligence collection, 2 GHz instantaneous bandwidth, monopulse geolocation, pulse and CW intercept capability, extended command and power systems, and mainbeam antenna digital output bandwidth compression and encryption of the digital downlink. A description of the FARRAH configuration is included in a Special Perort in a Special Report.

Other Information:

Launches must be coordinated with the HEXAGON program and are therefore dependent on the HEXAGON schedule.

MAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

Approved for Release: 2024/08/05 C05098601

CONTROL NO_BYE-13000-77 $_{\mathsf{PAGE}}^{\mathsf{COPY}} = _{\mathsf{OF}}^{\mathsf{OF}}$ OF ____COPIES

P-989 DECISION PACKAGE L5

FEATURES	ITEMS	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83
- Maintains current system - Provides three FARRAHS instead of additional URSALAS or RAQUELS with at least one launch every two years, including PCM data encryption, bandwidth compressor, and a technical intelligence capability	U-3 R-1A U-4 F-1 F-2	Δ	A	-I				Δ.Δ.
	LORRI				2-			
DOLLARS (IN MILLIONS)	ACTIVITY TOA	0	1.8	3.0	(4.0) 28.7	3.7	(.9)	(6.5)

LEGEND

♦ ACQUISITION DECISION

• START ACQUISITION

△ — AVAILABILITY OR IOC

▲ LAUNCH OR FOC

MISSION DURATION

HANDLE VIA BYEMAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

Approved for Release: 2024/08/05 C05098601

CONTROL NO BYE-13000-77 COPY____OF___COPIES

25X1

PAGE 161 OF PAGES

Package 6 of 7

DECISION PACKAGE L6 NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

Provide on-board data processing for FARRAHs with an on-board computer to provide compressed, processed data suitable for tape recording or narrow-band transponding for a read-out capability to support operational commanders directly.

Resource Requirements: (Dollars in thousands)

	<u>FY 77</u>	FY 78	FY 78		79 Cumulative Total
Package L5	17,300	25,600		-	36,200
Activity	0	3,000	3,000		3,200
Total Obligation Authority	17,300	28,600	28,600		39,400
*					
Five-Year Estimates:	FY 79	FY 80	FY 81	FY 82	FY 83
Package L5	36,200	28,700	30,500	31,200	34,700
Activity	3,200	2,500	1,700	1,900	2,000
Total Obligation Authority	39,400	31,200	32,200	33,100	36,700

Short-term Objective(s):

Effective with the FY 78 contract start for the F-1 satellite, to incorporate an on-board computer for on-board data processing. HANDLE VIA

BYEMAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

CONTROL NO BYE-13000-77

COPY OF COPIES PAGE 162 OF PAGES

Impact on Major Objectives:

This package enhances the operational ELINT collection objective by providing for real-time operational support to commanders by incorporating an experimental, narrow-band data, read-out capability on URSALA for use with a real-time, intelligence-processing (RTIP) van deployed to selected areas where operational support is desired. This package provides the opportunity to attain major improvements in operational support by transmission of satellite data directly to field units. It provides for significant contributions to a high-priority USIB requirement which calls for tactical support to commanders.

Other Information:

This package cannot be applied as an enhancement to packages below the current level, since it applies to FARRAH only.

Approval of this package would require a move to the front end of the HEXAGON vehicle because of weight/volume restrictions. Cost estimates do not provide for this move. Approval of HEXAGON packages (H3/H4) may preclude this move due to the addition of a fifth recovery vehicle.

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

CLASSIFIED BY BYMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11652 EXEMPTION CATE
GORY SRD DECLASSIFY ON INP DET

Approved for Release: 2024/08/05 C05098601

CONTROL NO BYE-13000-77
COPY OF COPIES

COPY___OF___COPIES PAGE 163. OF___PAGES

Package 7 of 7

DECISION PACKAGE L7 NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

Study and fund protect FY 80 for a capability in FY 84. YELV-compatible, advanced system with acquisition starting in

Resource Requirements: (Dollars in thousands)

•	<u>FY 77</u>	<u>FY 78</u>	<u>FY 78</u>		9 Cumulative Total
Package L6	17,300	28,600		· · · · · · · · · · · · · · · · · · ·	39,400
Activity	. 0	0		0	0
Total Obligation Authority	17,300	28,600		0	39,400
Five-Year Estimates:	FY 79	FY 80	FY 81	FY 82	FY 83
Package L6	39,400	31,200	32,200	33,100	36,700
Activity	0	4,000	5,600	6,700	28,100
Total Obligation Authority	39,400	35,200	37,800	39,800	64,800

Short-term Objective(s):

Starting in FY 80 to provide fund protection for an advanced low-orbiting ELINT system in the mid-1980s and continue the effort of the definition study included in the minimum-level and current-level packages.

BYEMAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

CONTROL NO BYE-13000-77

Impact on Major Objectives:

This package meets the program objective of developing an advanced, low-orbit system for operation in the mid-1980s, and provides for the design, development, fabrication, test, and on-orbit checkout of the new satellite. It is in consonance with the objectives of the Post-1980 ELINT System Configuration Study.

25X1

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYMAN 1 EXEMPT FROM
GENERAL DECLASSIFICATION SCHEDULE OF
EXECUTIVE ORDER 11552 EXEMPTION CATE
GORTY SBU DECLASSIFY ON IMP DE 1

Approved for Release: 2024/08/05 C05098601

CONTROL NO_BYE-13000-77
COPY____OF___COPIES
PAGE 165.0F____PAGES

P-989

OTHER ACTIVITIES (Dollars in Millions)

The following funds are provided by NSA for MGS operations.

NRP Decision Packages	77	78	Fiscal Y	Years 80	81	82	83
L1 (Minimum)	Provides S			the minimu			
NSA (SIGINT	Processing) 7.8	8.4	9.2	9.6	10.5	11.5	12.3
L2	Provides ac				ions associ	ated with a	1ternating
NSA (SIGINT Increment Total	Processing) 0 7.8	0.7 9.1	+0.4 9.6	+0.7 10.3	+0.5 11.0	+0.3 11.8	+0.5 12.8
L3 (No additional funds required at this level.)							
L4 NSA (SIGINT Increment Total	Processing) 0 7.8	0 9.1	0 9.6	0	+0.6 11.6	+1.0 12.8	+0.7 13.5
L5 (Current) NSA (SIGINT Increment Total		data pro +1.1 10.2	cessing as: +1.1 10.7	sociated wit +1.6 11.9	+0.1 11.7	-0.3 12.5	0 13.5

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

CLASSIFIED BY BYEMAN 1 EXEMPT FROM

GENERAL DECLASSIFICATION SCHEDULE

RECUTIVE ORDER 11552 EXEMPTION CATE

CONTROL NO <u>BYE-13000-7</u>7

COPY ____ OF ____ COPIES

PAGE 166 OF ____ PAGES

NRP Decision Packages	<u>77</u>	<u>78</u>	<u>79</u>	80	81	<u>82</u>	83
L6	Additional with FARRA			apability as	ssociated with	on-board	processing
NSA (SIGINT Proces	ssing)						
Increment	0	0	0	0	+0.6	+1.0	+0.7
Total	7.8	10.2	10.7	11.9	12.3	13.5	14.2
L7 SIGINT Processing funds to support an advanced P-989 system will be defined at a later date.							
in .							
Current NSA Budget	7.8	8.9	9.9	11.0	11.2	11.9	12.6

BYEMAN-TALENT-KEYHOLE
CONTROL SYSTEMS JOINTLY

TOP SECRET

LLASSIFIED BY BYMAN I EXEMPT FROM
MENERAL DECLASSIFICATION SCHEDULE OF
XECUTIVE ORDER 11852 EXEMPTION CATE

CONTROL NO_<u>BYE-13000-7</u>7

COPY____OF___COPIES

PAGE 167 OF____PAGES