TOP SECRET COMINT- BYEMAN-TALENT-KEYHOLE

CONTROL SYSTEMS JOINTLY

HANDLE VIA

(S) NATIONAL RECONNAISSANCE OFFICE

WASHINGTON, D.C.

-OFFICE OF THE DIRECTOR

22 June 1977

MEMORANDUM FOR THE POLICY REVIEW COMMITTEE (INTELLIGENCE)

SUBJECT: National Reconnaissance Program

The Director's Report to the Policy Review Committee (Intelligence) is forwarded. This document presents alternatives for consideration and issues for decisions at the July 1977 PRC(I) meeting.

The Recommended Program will be forwarded separately.

Charles W. Cook Acting Director

Attachment Director's Report

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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-operating, low-orbiting (275-340 NM altitude) satellites. All P-989 satellites are carried into orbit on HEXAGON. All are built within a basic payload package of similar weight and size. Individual satellites provide emitter geolocation, and may 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

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with a single mission ground station. This alternative is currently being studied for implementation in the mid-1980s in consonance with the Post-1980 ELINT System Configuration Study, which is discussed in a Special 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.



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DECISION PACKAGE SUMMARY NATIONAL RECONNAISSANCE PROGRAM P-989

L1 (minimum)

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.

L2

Provide additional satellites for alternating operations of URSALAs and RAQUELs and provide an 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 an STS/ELV-compatible F-3 in FY 85.

<u>L6</u>

Provide on-board data processing for FARRAHs.

L7

Study and fund protect a _____-compatible, advanced system with acquisition starting in FY 80 25X1 for a capability in FY 84.

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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	FY 78		FY 7	_
				This Package	Cumulative Total
Activity	17,300	22,500		32,400	32,400
Total Obligation Authority	17,300	22,500		32,400	32,400
Five-Year Estimates:	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>
Activity	32,400	19,900	<u>18,700</u>	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.

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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.



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	I	P- DECISION	-989 PACKAGI	E L1				
FEATURES	ITEMS	FY 77	FY 78	FY 79	FY 80	FY 81	FY 82	FY 83
- <u>Maintains the current</u> <u>system</u> - <u>Provides two additional</u> <u>satellites for one launch</u> at least every three	U-3 R-1A U-4	Δ		-4 		 		
years - Changes the frequency range of URSALA from 2-12 GHz to 4-18 GHz starting with URSALA 5	U-5/R-1B U-6/R-1C LORRI		•		△-▲ I			

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

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Package 2 of 7

DECISION PACKAGE (L2) NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

Provide additional satellites for alternating operations of URSALAs and RAQUELs, and provide an ______compatible capability starting with U-6 in FY 85.

Resource Requirements: (Dollars in thousands)

	FY 77	FY 78		FY	79
	. Sin da un en paga de paga			This Package	Cumulative
Package Ll	17,300	22,500		-	32,400
Activity		500		(1,600)*	(1,600)
Total Obligation Authority	17,300	23,000		(1,600)*	30,800
Five-Year Estimates:	<u>FY 79</u>	FY 80	<u>FY 81</u>	FY 82	FY 83
Package Ll	32,400	19,900	18,700	27,900	21,700
Activity	(1,600)*	<u>10,200</u>	<u>.</u> 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-lB, which is a duplicate R-lA without change to frequency range.

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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 HEXAGON program and are therefore dependent on the HEXAGON schedule.



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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 <u>compatible U-6 in FY 85</u> 	U-3 R-1A U-4 R-1B U-5 R-1C U-6 LORRI	△							25X1		
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 30.9	19.0 40.7			
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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)

× .	FY 77	FY 78		FY 7	
				This Package	Cumulative Total
Package L2	17,300	23,000		-	30,800
Activity	0	800		2,400	2,400
Total Obligation Authority	17,300	23,800		2,400	33,200
Five-Year Estimates:	<u>FY 79</u>	FY 80	<u>FY 81</u>	FY 82	<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):

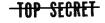
Effective with the FY 78 contract start for the next satellite, to include encryption on the digital downlink.

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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.

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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)

	FY 77	FY 78			79
				This Package	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:	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>
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.

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Impact on Major Objectives:

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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.

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Package 5 of 7 (current)

DECISION PACKAGE L5 NATIONAL RECONNAISSANCE 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 com-pression for FARRAHs, and an compatible with F-3 in FY 85. 25X1

Resource Requirements: (Dollars in thousands)

	<u>FY 77</u>	<u>FY 77</u> <u>FY 78</u>		FY 7	
				This Package	Cumulative Total
Decharge 12	17 200	22 800			22 200
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:	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	<u>FY 83</u>
Package L2	33,200	32,700	26,800	32,100	41,200
Activity	3,000	<u>(4,000)</u> *	3,700	(900)*	(6,500)*
Total Obligation Authority	36,200	28,700	30,500	31,200	34,700

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

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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 Report.

Other Information:

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



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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 tech- nical intelligence capa- bility 	U-3 R-1A U-4 F-1 F-2 LORRI	△							25X1	
DOLLARS (IN MILLIONS)	ACTIVITY TOA	0 17.3	1.8 25.6	3.0 36.2	(4.0) 28.7	3.7 30,5	(.9) 31.2	(6.5) 34.7		
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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 taperecording or narrow-band transponding for a read-out capability to support operational commanders directly.

Resource Requirements: (Dollars in thousands)

	<u>FY 77</u>			FY 7	
				This Package	Cumulative Total
Package L5	17,300	25,600	•		36,200
Activity	0	3,000	3,000 3,200		3,200
Total Obligation Authority	17,300	28,600		3,200	39,400
Five-Year Estimates:	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	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-l satellite, to incorporate an on-board computer for on-board data processing.

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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.



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DECISION PACKAGE L7 NATIONAL RECONNAISSANCE PROGRAM P-989

Activity Description:

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

Resource Requirements: (Dollars in thousands)

·	<u>FY 77</u>	<u>FY 78</u>		Fy T This Package	79 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:	<u>FY 79</u>	<u>FY 80</u>	<u>FY 81</u>	<u>FY 82</u>	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.

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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, shuttle launch, and on-orbit checkout of the new satellite. It is in consonance with the objectives of the Post-1980 ELINT System Configuration Study.





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<u>P-989</u>												
OTHER ACTIVITIES (Dollars in Millions)												
The following funds are provided by NSA for operations.												
NRP Decision Packages	77	78	<u>Fiscal Y</u> <u>79</u>	<u>80</u>	<u>81</u>	<u>82</u>	<u>83</u>					
Ll (Minimum) Provides SIGINT processing for the minimum NRP program. NSA (SIGINT Processing)												
NOK (DIGINI 11000	7.8	8.4	9.2	9.6	10.5	11.5	12.3					
L2 Provides additional data processing revisions associated with alternating procurements of URSALAs and RAQUELS												
NSA (SIGINT Proce		0 7	10 /	10.7		10.0						
Increment Total	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 Proce Increment	essing) 0	0	0	0	+0.6	+1.0	+0.7					
Total	7.8	9.1	9.6	10.3	11.6	12.8	13.5					
L5 (Current) Additional data processing associated with FARRAH satellites. NSA (SIGINT Processing)												
Increment Total	0 7.8	+1.1 10.2	+1.1	+1.6	+0.1	-0.3	0					
IOLAL	1.0	10.2	10.7	11.9	11.7	12.5	13.5					

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NRP Decision Packages	77	<u>78</u>	<u>79</u>	80	81	<u>82</u>	<u>83</u>
L6 NSA (SIGINT Proces	with FARRA			pability as	sociated with	on-board	processing
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 Prodefined at			ipport an ad	wanced P-989	system wil	l be
Current NSA Budget	7.8	8.9	9.9	11.0	11.2	11.9	12.6

HANDLE VIA BYEMAN-TALENT-KEYHOLE CONTROL SYSTEMS JOINTLY

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