## TOP SECRET

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HE	X	A	40	W	•

25X1

P-11/P-770B/P-989

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(7301 through 7347, and 7241, 7242)
Date of Inception - 1962
Date of Termination - Ongoing

II

Major Project Milestones

First launch, non-NRO - Hitch Hiker, 18 Mar 1963 First launch, NRO mission - Pundit, 29 Oct 1963 First heavy P-11 - Tivoli II, 19 Mar 1969 First subsat launch from HEXAGON - Mabeli, 20 Jan 1972

III Number and date of flights - See Attachment

IV System Description

system was built originally as piggy back racks the Agena aft racks of host spacecraft, to provide low altitude SIGINT collection of denied areas. The system evolved into piggyback satellites being ejected from the HEXAGON spacecraft starting in January 1972. The systems provide single satellite geolocation ELINT and selected communications mapping intelligence. The products support S&T intelligence and timely operational needs. The S&T exploitation is used for development countermeasures and tactics. οf threat assessments, operational needs supported are I&W, threat recognition and support of force application decisions. This last information is provided in wide area ELINT general search mode. The boosters used besides HEXAGON were Thor, Thrust Augmented Thor (TAT), the Long Tank TAT (LTTAT). The altitude flown began at about 275 NM and the inclinations were polar and nearly sunsynchronous when launched from HEXAGON. The weights of the packages have frown from 270 lbs. to about 2000 for the latest spacecraft. Two recent pallet payloads of this system have investigated Soviet signals at the higher frequencies in the GHz ranges.

V Principal Contractors

LMSC - spacecraft
Aerospace Labs
Sylvania, EDL
Stanford (SEL)
AVCO - command system
ESL
LTV
E-Systems (LTV)

Conic Watkin-Johnson Teledyne Itek/ATI HRB Singer AIL Motorola

VI AF Requirements and Impact - See other Attachment

TOP SECRET



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HISTORY OVERVIEW

25X1

SYSTEM LAUNCH DATE		FREQUENÇY COVERAGE									DURATION	
			GHz						MISSION	(MONTHS)		
		100	300 50	0 70d	3	5	7 1	0 :	30 5	0 70		
4201	7/63						_				VAN ALLEN BELT	2
4001	10/63										SOV TLM	19
4101	12/63										11 11	3
4301	7/64										GS	1
4202	8/64										VAN ALLEN BELT	15
4302	10/64										RADAR GS	4
4401	4/65										SOV TLM	21
4402	6/65										RADAR - DF	21
4403	8/65		30.								11 11	20
4404	5/66										DF	-
4405	8/66				<b>(X)</b>						GS - DF	14
4406	9/66										GS - DF	4
4408	5/67				•						RADAR DF	3 .
4409	6/67										SOV TLM	16
4410	11/67			- 2 P	visit ar Qic						RADAR	3.
4412	1/68										RADAR	15
4411	3/68							-			RADAR	12
4420	6/68										GS - EOB	18
4413	9/68			(1.0 m)							GS - RADAR	12

GS = GENERAL SEARCH

EOB = ELECTRONIC ORDER OF BATTLE

SECRET

25X1

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FI FII LII SECRET,

HISTORY	OVERVIEW	(Cont'd)
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SYSTEM LAUNCH DATE		FREQUENCY COVERAGE								DUDATION	
		100	MHz	500 700	3	GHz 5 7 1		30 5	50 70	MISSION	DURATION (MONTHS)
4418	3/69	100	300 3		aabmaanmaammaa mee mee		10	-		RADAR - DF - PRE D	18
4417	5/69			1881			<del> </del>	+	1	GS - RADAR	10
4419	9/69	1			Automatical Control of the Control o			1	1	SOV TLM	20
4407	9/69	1								COMM SEARCH	11
4422	3/70									RADAR SEARCH	20
4421	5/70					進度			11	RADAR - EOB - GS	28
4423	11/70			1 M 3				<u> </u>		TROPO - TI - GEO	45
4427	9/71									MICROWAVE - GEO	11
4424	1/72									·TI - POL - PWR	72
4425	7/72					1.1				GS - EOB.	48
4426	11/73									EOB	36
4428	4/74									TROPO	7
4429 '	11/74	-								GS - TI	64
4430	7/76					7 m.				EOB - GS	96
4432	3/78									GS - TI - EOB	OPER
4431	3/79			$\prod$						EOB - GS	54
4433	5/82									GS - TI - EOB	OPER
4434	6/84			1						GS - TI - EOB	OPER
	(85-86)	+		++	+		-	100	<del> </del>	GS -	

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