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HEXAGON/DORIAN COMIREX-D-31, 1/3 CORONA/GAMBIT

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18 March 1969

MEMORANDUM FOR: Committee on Imagery Requirements and Exploitation

SUBJECT:

Planning Factors for the Exploitation of Reconnaissance Imagery: National Reconnaissance Program, FY 1970-1974 .

REFERENCE:

The National Tasking Plan for the Exploitation of Multi-Sensor Imagery (NTP), January 1967

The attached memorandum will be discussed at the COMIREX

meeting on Thursday, 20 March 1969.

Hayden Channing

Executive Secretary Committee on Imagery Requirements and Exploitation

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SUBJECT: Planning Factors for the Exploitation of Reconnaissance Imagery: National Reconnaissance Program, FY 1970-1974

REFERENCE: The National Tasking Plan for the Exploitation of Multi-Sensor Imagery (NTP), January 1967

In accordance with the reference, COMIREX has developed information which it is hoped will be of assistance to those with exploitation responsibilities for sizing future exploitation programs. While the National Tasking Plan requires this information in support of the national reconnaissance program for a five-year period, FY 1970-1974, COMIREX notes that such future planning can only be based on the best information available at this time. There can very well be radical changes within the period particularly beyond FY 1970. COMIREX notes also that as this report will be revised on an annual basis there should be adequate opportunity for those planning imagery interpreter resources needs to keep procurement programs in perspective. In this same context of the difficulty of accurate extrapolation beyond the next year or

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two COMIREX requests that, should any of the longer term predictions of workload appear to require expensive procurement or reorganization of assets, these problems be identified to COMIREX on ad hoc basis in order that the estimates contained in this memorandum may be reassessed.

2. During the period FY 1970-1974, the NRP could employ up to eleven different collection projects or systems, which have the inherent capability of collecting imagery over any denied territory. The estimated number of successful missions for the projects over the five-year period are set forth in Tab A; figures are tailored to the estimated success of the missions involved based on experience with present systems and estimates for future systems. These "estimated probability of success" figures are shown as footnotes on Tab A. The technical characteristics are summarized in Tab B.

Supporting data on systems or projects is given below:

a. <u>KH-4A</u>: This satellite collection project has two recovery buckets for each launch. The project will terminate after the one launch in

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b. KH-4B: This satellite collection project is also characterized by two buckets for each launch. The future of this project depends primarily upon the introduction and success of the KH-9 collection project during FY 1971. At present, however, no launches are scheduled after FY 1971.

с. KH-9: This satellite collection project will not become operational until sometime during FY 1971. The project will have four recovery buckets or missions for intelligence photography and a single for mapping (starting with the fourth mission) with each launch and will be employed against area search and target surveillance requirements. A single intelligence bucket will provide useable imagery of about the same geographic area as a single bucket of the KH-4B project that is operating with the UTB film and will have the ground resolution characteristics of the old KH-7 collection project.

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d. <u>KH-8</u>: This satellite collection project is currently operating as a high resolution spotting system. Beginning in FY 1970, each launch will consist of two recovery buckets. The future of this project during FY 1972 and beyond depends primarily upon the introduction and success of the KH-10 series, and to a lesser extent the KH-9 project.

e. <u>KH-10A</u>: This satellite collection project is scheduled to be initiated during FY 1972. It will be a very high resolution spotting system. There will be only one recovery bucket for each launch. No launches have been projected beyond FY 1973.

f. <u>KH-10B</u>: This satellite collection project is scheduled to be initiated during FY 1973. It is identical to the KH-10A except each launch will have six recovery buckets.

g. <u>TALENT/CHURCHDOOR</u>: These projects involve the U-2 airborne platform. At present, no reasonable launch schedule can be projected for these

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,		h.	<u>T-X-</u>	-1: This is also a	n airborne project	
	•		(*)	ins in Camera		
	:		141	Iric II Comerc		
			(3)	"H" Camera		
			(2)	Delta III Came:	ra	
			(1)	"B" Configurat	ion Camera	
		of sensors	which co	uld be employed f	or these sorties.	
		projects.	The follo	wing represent th	e different types	
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	Estimated N	et Useable**	Imagery Data ·					·	Film Pote			
ollection roject	Cove (Million Storeo	rage Sq NM) Stereo & Mono	*** Scale	**** Type	Collection Mode	Grnd Resol (feet)	Useable Frame Size	Number of Frames	Camera Type	Gross Footage	Width	Тург
.KH-4A	2,28-2.53	2.42-2.75	1:325,000	B/W	Stereo-Mono	10-15	2,15"x29.3"	6,000	Pan	16,000	70 mm	STB
.ќн-4в	2.17-3.36	2.69-4.17	1:271,000	B/W CD BC	n	5-10	19	9,000	17	24,000	11	UTB
a.Intel	2.6-4.25	2.98-4.40	1:112,000	CD B/W BC		2.4-8	0.5':2.63' to 0.5':10.5'	16,700 to 14,200		52,000	6.6"	18
h.lapaing	4.27-5.30	N/A	1:546,000	B/W	Stereo	30-35	9.2"x18.2"	2,000-2,500	Freme	3.0(1-1,000)	9.5 ^{°r}	STR
.кн-8	0.055-0.072	n/a	1: 36,000	B/W CD C	Stereo-Mono	I	8.5"x variabl	e variable	strip	5,000	9.46"	দান্ত্র -
.KH-lOA	0.008-0.010	13	1: 11,500	B/W C TR	37		9.4" diameter	17,500	frame	15,300	9.5"	
.KH-10B	0.001		1: 11,500	1-1 ¹	н н н н н н н н н н н н н н н н н н н		<i>"</i>	3,340	}	2,920	ir ir	
.a. "B'Confg	0.126-0.189		1: 25,000	B/W	ļ	2.0-3.0	9"x18"	7,200	(13,000	9.5"	
Sb. Deltalli	0.005		1: 30,000	B/W B/W	l	1.0-2.0	2.15 X29.5	4 800	Pan	2,000		
d. Iris II	0.126		1: 35,000	B/W	Storeo	1.0-2.8	4.5" x60	2,200	}	10,500	5"	
T-X-1	0.062-0.085	11	1: 35,000	B/W	1	2.0-3.0	9" x 9"	5,600	frame	4,500	9.5"	-1
*	In terms of s so the total for some syst Includes both	satellites the f workload must b tems as shown in stereo and mono	igures given are for e estimated in the Teb A. coverage, and is b	përspect pased on t	recovery or be ive of bucket : the range of cl	ucket * increase * Loud free	**** Scale is at *** Normally on Color(C),Bi required.	nadir and r ly Black and -Color(BC),	felative White (and Infr	to nominal o B/W), with C ared(IR)on a	perating a amouflage selective	ltitudes Detectio basis a
	imagery obtain	ned in the past	by current or compa	irable col	lection project HEXAC CORC	ts.8 SON/DORIAN DNA/GAMBIT	••		BYE-	2231-69 via BYEMAN,	4 m a 3	

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