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	25X1 HANDLE VIA CONTROL SYSTEM		• *	2(5) 131,	SIB-D-41.15 MOR-D-1 January 196 mited Distr	3/52-2)
	UNITED S	TATES I	NTELI	IGENC	E BOA	RD
	MEMORANDUM F	OR THE UNITE	D STATES	INTELLIG	ENCE BOAI	RD
	SUBJECT : R	econnaissance	Resources	for Crisis	Managemen	t Situations
	REFERENCE : U	SIB-D-41.15/7 June 1965, Lin	•			
	Reconnaissance On is circulated for in	nformation of th	he subject ne United S	in response tates Intelli	to above r gence Boar	eference d (USIB).
	J	suggested that, orandum to the	Committee	on Overhea		
		25X1A			•	
			E:	xecutive Sec	cretary/	
	Enclosure					
NRO review completed.	• •		CO	NDLE VIA NTROL SYS	25) STEM ONLY	
Ů		25X1A]			25 X1
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HANDLI	25X1A	DEPARTMENT OF T	THE AIR FORCE	Enclosure USIB-D-41.15/74 (COMOR-D-13/52-2) 3 January 1966 Limited Distribution	1
	E OF THE ASSISTANT SECRETAR	ΥΥ	Janı	ary 3, 1966	
	MEMORANDUM FOR:	Chairman, Uni	ted States Ir	ntelligence Board	
	SUBJECT:	Reconnaissance Crisis Manager			
	REFERENCE:	USIB-D-41.15/	72		
25X1D	Intelligence Bo Office advise t of its studies capabilities an handling. This of the United S situations. In re in the light of management has periods of inte photographic re	he Board as soo toward increasi de plans for spe request was postates Government esponding to this the framework been east in pr	hat the Nation as practical andly advantageding up procinted toward towa	onal Reconnaissance able on the results geous cessing and film meeting the needs l international he NRO is doing so subject of crisis discussions—namely, uration during which	
	Over sions on this sand the COMOR. naissance asset might be employ is a paper which limitations, an	the past six mosubject have taken As a result, the savailable now yed for crisis much briefly summa	onths, severaten place between NRO has even and in the management purizes the chas of all sat	ellite, aircraft,	
25X1A	With CORONA (KH-4) a cations targets term prospects	ns a means of pr	25X1A	t for the use of rage of those indi- near-25X1D NDLE VIA 25X1A NTROL SYSTEM ONLY	

25X1

25X1A $_{
m HAND}$. Approxed For Release 2003/04/23 : 61A RDP79B01709A0023 Φ 001 Φ 004 Φ 1 Φ 2 **25X1A** USIB-D-41.15/74 CONTROL SYSTEM ONLY (COMOR-D-13/52-2)25X1 3 January 1966 Limited Distribution 25X1 25X1D **NRO** 25X1A The KH-4 program, because of its maturity, is in a much better position to be employed in crisis situations. 25X1A to the Board, in conjunction with a regular launch in the next few months, I plan to test the reaction capability of the KH-4 and the processing/production facilities in a simulated crisis situation. Unfortunately, as noted previously, the resolution of the KH-4 is not adequate to provide a ILLEGIB majority of the information needed. I am sure the Board will agree that it and the NRO should together insure that plans are in effect to take maxi-25X1D mum advantage of the KH-4 canabilities. The COMORahas provided targeting for the use of and I am advised that these targets are kept constantly undellied in content to advise the review in order to advise the review in order to advise the NRO of any change. [<u>T</u>am also advised that COMOR is indicating which of these targets might usefully be covered by the KH-4 if the situation demanded that both the KH-4 and _____ be used simultaneously to collect information at a given point in time. With regard to aircraft systems, the Board is well aware of the uses which could be made of the U-2 and the BLUE SPRINGS drones in crisis situations, particularly in those areas where present air defense capabilities permit. The OXCART aircraft will shortly be available for emergency situations which might arise in China and Southeast Asia. However, the use of the OXCART over the USSR when it achieves full operational capabilities poses certain problems, not so much in terms of its ability to survive, but rather in terms of its political impact. In some circumstances its use might exacerbate unpredictably the tense situation pertaining at a time of international crisis. 25X1A 2 25X1A HANDLE VIA CONTROL SYSTEM ON 25X1

25X1A

	25X1A(COMOR-D-13/52-2) 3 January 1966	25X2
	Limited Distribution	
In addition, there is the SAC namely, the SR-71, which will shortly be national asset.	version of the OXCART,	, de a hat .
There are two other photograph development which would be of importance situations in certain areas, particular east Asia. I refer to the TAGBOARD drough at high altitudes at This vehicle, which is launched from a craft, should be operational by late CY of Defense is also purchasing advanced as the 147-II which will be available by contemplating an even more advanced sub in CY 1968.	ly, China and South- ne which will operate modified OXCART air- 1966. The Department subsonic drones known mid-1966, and is	25X1A
The NRO has under active stude investigation photograph systems as a part of the NRP. Also, as the time of receipt of information after the collected, the NRO is investigating in a KC-135 aircraft. This would permit hours after the retrieval of either a material satellite photographic package.	aic readout satellite a a means of reducing or photography has ag the feasibility of exploitation capability at a saving of many	
In summary, in consideration the attachment, several points seem cle existing satellite, aircraft, or drone currently in development have the desir reaction capability to deal properly winternational situations. Aside from equick reaction, no single system availates capable of doing the total crisis mattively, there is a substantial national on hand and/or projected for the near employed in an emergency.	systems nor those systems nor those red truly quick— ith rapidly changing considerations of able or contemplated anagement task. Collection capability term which could be	1 1 64/
The NRO will continue to improfession of all systems for use in crisis situal reduction of time from retrieval of air product to delivery of findings to nat Additionally, greater emphasis will be tions leading toward quicker reacting	reraft and satellite ional authorities. placed on investiga-	

25X1D

HANDLE VIA CONTROL SYSTEM ONL 25X1

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. · - L		nuary 1966 ted Distribution	23/(1
systems (i.e., readout)			25X1 NRO
	Alexander H. Flax Director National Reconnaissance	Office	
Attachment Assets for Crisis Mana	gement		

cc: Ch/COMOR

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CONTROL SYSTEM ONLY

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· .			Attachment to	
HANDLE VIA CONTROL SYSTE	M ONLV		Enclosure	
	WI ONEIT		USIB-D-41.15/7	
			(COMOR-D-13/5	(2-2)
		······································		
to crisis manage continually main CORONA system on the launch da mated that CORO mately 60 consecutives.	-4 resolution is adequate RONA program is in an element requirements. A stained at R-38, or less in is always maintained at e of another CORONA. DNA systems could be not cutive days (barring cat injection into orbit), re	excellent posit approximately of , days from land an R-7 to R- In an emergenaintained on constrained astrophic failu	tion to respond 5-6 systems are unch. One 9 status, even ncy, it is esti- orbit for approxi-	25X1A
On the deb	it sido in a origia mona			_ILLEGIB
severar cuspacte	it side in a crisis mana cristics which limit or h plans to improve syste	inder its effec	tiveness Those	
of the J-3 model sistent (less rand bility to provide	present J-1 CORONA processionally in consist in early 1967, the KH-4 dom vibration-induced some foot resolution by orbusing miles which is not procession.	tency. With the is expected to smear), and to iting at lower	te introduction be more con- have the capa-	
recycling their co	present CORONA can be , by preparing two system ount-downs in a complem apability can be maintain	ems simultane mentary fashio	ougly and	
in the CORONA's	mpletely new orbit and ystem at R-9. There a najor development effor	re no plans to	improve on this	
for each revolution	te present time, CORON on are preset in the vehicly one of ten alternative	icle prior to la	unch: then	
			2	5X1A

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25X1A			Enclosure	25>
ANDLE VIA			USIB-D-41.15 (COMOR-D-13	
ONTROL SYSTEM ONLY			3 January 1966	5
			Limited Distri	.bution
may be selected by the NR				25X1[
which permits additional a	iternatives will	be available i	n 1967.	20/(11
ATOOD A TOT STRONG ON THE				
AIRCRAFT SYSTEMS:				
Depending on the are	a to be covered.	the U-2 (IDE	ALIST) air-	
craft has considerable pote				
is basically a simple airple	=	_		
kept on ready alert for extended	-			
posture, a mission launch	can take place a	pproximately	2 1/2 hours	051/44
		HANI	OLE VIA	ໆ 25X1A
			TROL SYSTEM O	NLY 5
				25

25X1A

25X1A Approved Fqr Release 2003/04/23 : CIA-RDP79B01709A00<u></u>2300010041-2 **2**5X1 HANDLE VIA Attachment to CONTROL SYS Enclosure USIB-D-41.15/74 25X1D (COMOR-D-13/52-2) 3 January 1966 tion rage of the U-2 lies generally in the aircraft's vulnerability to the increased air defense canability. The IDEALIST aircraft flies sufficiently high interceptor aircraft threat, but is vuinerable to SA-2 missile systems. Electronic countermeasures equipments for protection against both 25X1D the aircraft and missile threats are installed. While these equipments enhance U-2 survivability, they are not completely effective. Thus, some constraints must be imposed in selecting flight paths in heavily At the present time, there are twenty U-2 aircraft which could be used in crisis management situations. Nine of these are assigned to CIA, eleven to SAC. The SAC aircraft have slightly less capability in operational altitude and in electronic equipment; however, a modification program is under way to up-grade these aircraft so that all twenty U-2 aircraft will have like configuration for world-wide The A-12 (OXCART) aircraft offers a high potential for crisis management. This aircraft is in the final stage of test and development, with operational utilization scheduled for early 1966. The reaction time for the A-12 aircmft is not as fast as that of the U-2. As with the U-2, the OXCART flight paths which can be selected are highly flexible although less adaptable to last minute and/or in-flight changes. Flight paths will normally be pre-selected and programmed in the aircraft guidance computer. The high speed of the aircraft does not permit a wide range of in-flight pilot options in target selection, and changes will be made more on the basis of external advice rather than on pilot 25X1A HANDLE VIA 25X1A CONTROL 25X1A M ONLY

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25X1

1	•	Approved For Release 2003/04/28© CIA-RDP79B01709A0023000	18041-2 Attachment to	25X1
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		CONTROL SYSTEM ONLY	3 January 1966 Limited Distribu	tion
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ı	**			
	L	Thoro one side a to		
		There are eight A-12 aircraft in the operational conf In addition, two aircraft are being used for continued testi two-seat version is being used for the		
		not readily adaptable to operational missions. There are buy additional OXCART aircraft.	no plans to	25X1D
				—
i	, , , , , , , , , , , , , , , , , , ,			
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	•			
			X1D	
25X1D		DAC WIII receive Operational .		
i		additional aircraft have been manufactured for the test prog Delivery of the first operational aircraft to Beale Air Force California is schoduled for I		
 - -	25X1D	and the second and second district and the second s		
	20/(15	capability will be available by May 1966 and a full capability 1966. No additional buys of aircraft are anticipated a		
			25X1A	
		HANDLE VIA CONTROL SYSTEM (
_		- STITIOL OTHER (25Y1
			25	5X1 & 5X1
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25X1A		USIB-D-41.15/7 (COMOR-D-13/	52-2)
ANDLE VIA	25X1A	3 January 1966 Limited Distrib	ution
ONTROL SYSTEM ONLY			
DRONE SYSTEMS:			
In addition to the aircraft programs which could be used for cris drones have been employed in opera-	is management. Tho ational missions sinc	e 147 series e August 1964.	25X1
QI ONON HAVE SEEN STATE OF ANY MARKET	o+ 450 knote of appro	vi matelv	
		·	
		٠	
The main disadvantages of th	e drone are the inabi	lity to alter	
the pre-programmed flight path, th	ne restricted total ph	otograpnic	
coverage, and the drone vulnerabil controlled manually by the DC-130	lity. The Hight pain (this technique	
would iconardize the "mother ship"	" in most areas of op	eration. The	
tochnique could be used in an area	such as Cuba where	the launch air-	
eraft could "stand off" while control another DC-130 on the other side of	olling the drone or pa of the island	iss control to	
Vulnerability of the drone in	heavily defended are	as is a problem	
it is vulnerable to both MIG's at However, the small size of the dro	nd surface-to-air (SI	1-2) missiles. It radar target	
and ground controlled positioning of	of the interceptor air	craft for a zoom	
alimb maneuver is quite difficult.	Most losses to MIG	aircrait are	
balloyed to have occurred as a res	sult of visual acquisit	ion due to the	
tell-tale condensation trail. A cor installed in all drones beginning es	ntrail suppression sy arly in 1966.	Stem will be	25X1
installed in all drolles beginning ex		(2.45 - 27) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
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	IIANDLE	VIA L L SYSTEM ONLY	
		o orothworth	25X1
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	Approved For Release 2003/04/23 CJA-RDP79B01709A002300010041c2ment to Enclosure USIB-D-41.15/74 (COMOR-D-13/52-2) HANDLE VIA CONTROL SYSTEM ONLY Approved For Release 2003/04/23 CJA-RDP79B01709A002300010041c2ment to Enclosure USIB-D-41.15/74 (COMOR-D-13/52-2) 3 January 1966 Limited Distribution
25X1A	147-G drones were purchased. have been lost on operational missions. low-level drones were ordered; 25X1A one has been lost on a test mission. lat7-H drones have been ordered. Attrition of these is expected by the second quarter of 1967. A study is in progress to determine the size of the increased 147-H production requirement.
i.	The TAGBOARD system is presently in development. We anticipate the first test and development launch to occur in January 1966. Six TAGBOARD's have been purchased for the test program. Fourteen have been ordered for operational use. An additional purchase will be contingent upon the development success and operational utilization. 25X1A HANDLE VIA CONTROL SYSTEM ONLY
	25X1A 25X1A 25X1A

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Approved For Release 2003/04/23 : CIA-RDP	79 ₽91709A002300	010041:2 ment t Enclosure USIB-D-41.1	OEV.
HANDLE VIA CONTROL SYSTEM ONLY	25X1A	USIB-D-41.1 (COMOR-D- 3 January 19 Limited Dist	13/52-2) 66 ribution
FILM PROCESSING/PRODUCTION: NRP film processing facilities are over AFB, Yokota AFB, Taiwan and Safacilities are utilized, and in an emergence. Thus, ample processing/producti	igon. Occasiona ency, many are a	ally, other DOI available for) ILLEGIB
A serious limitation on the ability situation is the time involved in carrying facility and thence to Washington for in the example satellite capsules are re-	to react quickly ng the film to a p terpretation and covered in the H	y in a crisis processing evaluation. awaii area.	<u> </u>
Under favorable conditions, approxima deliver the film to Rochester (via McGu	tely 34 hours are	required to	

The NRO has considered establishing a national-level processing/production facility in the Hawaii area for quick-reaction handling satellite products. The quickest possible means of handling

NRO

CORONA products would be to both process and interpret in the Hawaii area and transmit the analyses to Washington.

minimum duplicates, and deliver to Washington. In an emergency, film could be delivered direct to Rochester, and the Photo Interpreters could begin reviewing it at Rochester as soon as it was developed. Using this technique, initial interpretation could commence approxi-

mately 16 hours after capsule recovery.

However, believing that national authorities will desire to view the product directly, the NRO has also considered modifications to this approach. One technique might be to process and minimum-duplicate in Hawaii (would require approximately eight hours after capsule recovery), as indicated above, and airlift the take to Washington in a special C-135 or C-141, equipped with exploitation equipment and carrying a team of photo interpreters. During the 8-9 hours flight to Washington, the photo interpreters could accomplish a reasonably comprehensive analysis of the critical targets covered.

The most promising approach (for the relatively near term) appears to be a combination of in-flight processing, limited duplication, and initial interpretation in a single aircraft. Research and

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development is underway on the critical elements of an in-flight processor of acceptable quality. If these investigations prove out the feasibility of an all-viscous airborne processor, it is anticipated that development of two airborne processing/interpretation facilities (modified KC-135's) will be undertaken near the end of CY 66. This concept envisages the delivery of processed satellite film, along with initial interpretation, to Washington approximately nine hours after capsule recovery in the Hawaii area. When used for aircraft or drone photographic product, it would be possible to deliver processed film, along with initial interpretation, to Washington from any point on the world in approximately 20 hours or less.

