

400:

Are you still file  
Please do a cover  
memo (show)  
telling "why" this  
was written.

---

(what)

① 1 a should read 24 to 34° inclination  
to be consistent with P 1 d.

② P 2 a it is important to emphasize  
that the [REDACTED]  
cover.

FROM: (Activity transferring documents)		DATE	PACKAGE NUMBER	(CONTAINER NUMBER)	SUSPENSE DATE
SAFSS-5		8 Feb 65			
		CLASSIFICATION	FILE DESIGNATION		121-65
TO: OSD/ISA (Mr Friedman)		TO	DATE	TO	DATE
8 Feb 65					
DATE DISPATCHED		1.		3.	
		2.		4.	
DESCRIPTION OF DOCUMENTS (Indicate type (letter, memorandum, etc.) and the number of copies; subject, short title if classified; number of insertions and attachments, and any other identifying data. Changes in the description (additions, withdrawals, etc.) will be shown with the date and initials of individual making entry.)					
Memo for Mr Friedman, 8 Feb, Subj: Sat Recce of Cuba, 4 cys, 3 pgs; w/3 Atchs Atch 1: KH-4 Coverage fr WTR, 1 pg, 4 cys Atch 2: KH-4 Coverage fr W or ETR, 1 pg, 4 cys Atch 3: KH-4 Coverage fr WTR, 1 pg, 4 cys					
Cy 1 memo and cy 1 atchs to Mr Friedman via DIA, 8 Feb Cy 2 memo and cy 2 atchs to SS-5 Cy 3 memo and cy 3 atchs to SS-1 Cy 4 memo and cy 4 atchs to RF-1					
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TS [REDACTED]  
DEPARTMENT OF THE [REDACTED]  
OFFICE OF THE UNDER SECRETARY

MEMORANDUM

8 Feb

For Dr. McMillan -

Mr. Friedman feels that he needs this memorandum urgently. He is convinced that "the Soviet will want to fly a satellite against Cuba. The question is which one."

We have double-checked the values expressed in this memo and believe they are conservative expressions of capability, cost, and product.

[REDACTED]

REF ID: A66255

SAFSS

Col Worthman/Lt Col [REDACTED]

Typed 5 Feb 65

1965 FEB 8 13 33

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**MEMORANDUM FOR Mr. Friedman, Deputy Assistant Secretary  
of Defense for Regional Affairs/ISA**

**SUBJECT: Satellite Reconnaissance of Cuba**

In response to your recent request, I have reviewed and updated the information previously provided you on the utility of the KH-4, KH-5 systems when applied to the Cuban reconnaissance problem.

1. Cuban Reconnaissance Coverage Using the KH-6 Launched from the Western Test Range (Attachment #1). You will recall that during our conversation I requested the opportunity to reconfirm the KH-6 information available at that time. I have done so and can summarize the findings as follows:

a. Operations: We can launch a westbound KH-6 from the Western Test Range in 6 months from "go." The KH-6 can be launched at the ideal coverage inclination angle of 24°. It will make two reconnaissance passes over Cuba every day at (optimal cloud-free) 0930 and 1100 hours local.

b. Logistics and Costs: The KH-6 system is not in the scheduled inventory today. Five payloads are available and can be flown for [REDACTED]. Lead-time for additional KH-6 payloads is 12 months. The first five, KH-6's are priced at [REDACTED] each (produced, launched, tracked). With a forecast probability of 80%, 15 KH-6's would be required per year, at a cost of [REDACTED] to provide the necessary coverage of Cuba.

c. Cuban Coverage: One KH-6 mission will cover Cuba completely four times, producing an average of 94% cloud-free coverage at a nominal resolution of 5 feet.

d. Bonus Coverage: Dependent upon launch angle selected, the KH-6 could be programmed to cover targets in South China between [REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

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Copy [REDACTED]  
[REDACTED]  
[REDACTED]

8 Feb

Colonel Worthman

(W)

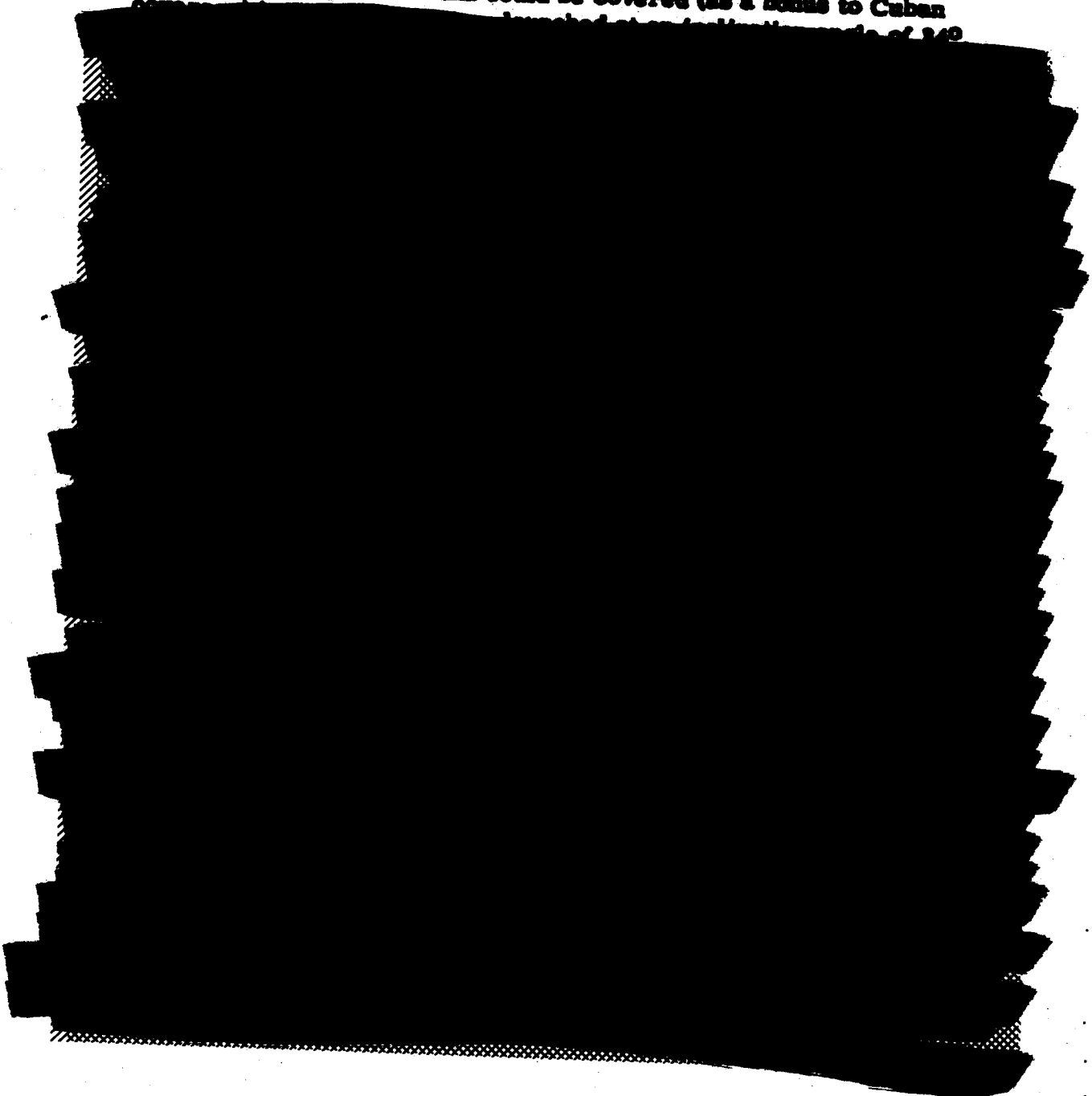
Lt Col



File: NSAM 311 Temporary File

*W.C.: Please ask me about this. Be  
sure to read it carefully for  
possible errors. W.C.F. will  
certainly call (W)*

24°-34° North and 24°-34° South latitude. Approximately 130 of the 468 priority targets in China could be covered (as a bonus to Cuban ~~operations~~ launched at an altitude of 240



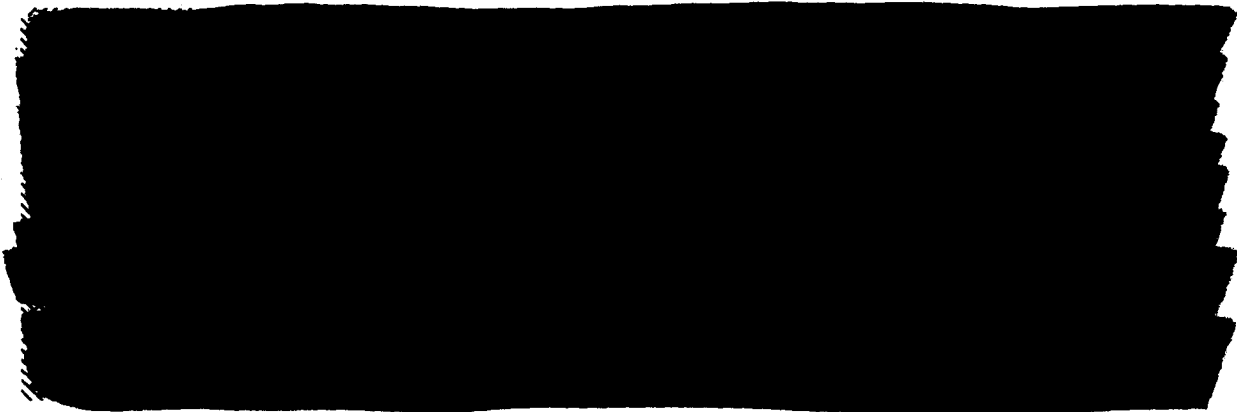
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3. KH-4 Coverage from the Western Test Range is summarized on Attachment #3.

I trust that you will find these data helpful in connection with your study of the questions raised by NSAM 311.

Brockway McMillan  
Director

(S) National Reconnaissance Office

Distribution:  
Cy 1 to OSD/ISA  
Cy 2 to [redacted]  
Cy 3 to [redacted]  
Cy 4 to RF-1

880016 [redacted]  
207701 [redacted]

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**KII-6 COVERAGE FROM WESTERN TEST RANGE**

<b>ADDED COST PER YEAR</b>	<b>90% Coverage Every 30 Days</b>	<b>90% Coverage Every 45 Days</b>	<b>90% Coverage Every 60 Days</b>	<b>75% Coverage Every 60 Days</b>
a. 100% cloud-free photography				
b. At least 70% cloud-free photography *				

\* Since one flight furnishes more than 90% coverage of 100% cloud-free photography, the 70% column is redundant.

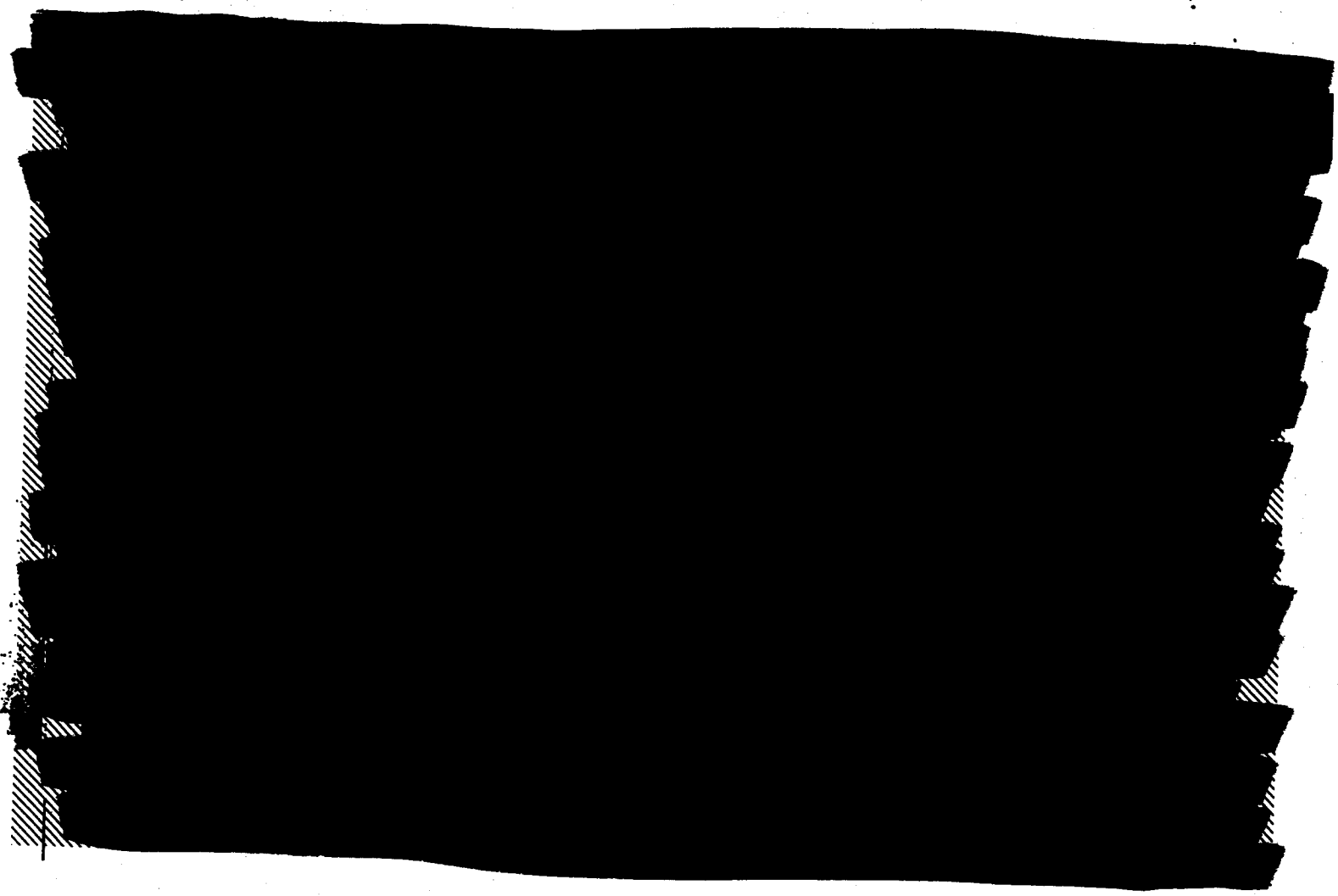
\*\* Flights required (reliability is forecast at 80%).

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KH-4 COVERAGE FROM WESTERN TEST RANGE

ADDED COST PER YEAR	80% Coverage Every 30 Days	80% Coverage Every 45 Days	80% Coverage Every 60 Days	75% Coverage Every 30 Days	75% Coverage Every 60 Days
100% cloud-free photography	[REDACTED]				
At least 70% cloud-free photography	[REDACTED]				

- \* This is the present flight schedule (1 per month). It assumes all KH-4 flights on a 9-day synchronous orbit.
- \*\* Flights required (reliability is forecast at 80%).

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