Q. Are you still file
Please do a come
memo (zero)
taking 'why' this
was written.
1. A should read 24 to 30° inclination to be consistent with P1d.

2. P2a - it is important to emphasize that this occurs.
<table>
<thead>
<tr>
<th>Action</th>
<th>Date</th>
<th>Page(s)</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Memo to Mr Friedman</td>
<td>0 Feb</td>
<td>1 pg, 4 airs</td>
<td>Covered by MTN, 1 pg, 4 airs</td>
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<td>Memo to Mr Friedman</td>
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<td>Memo to Mr Friedman</td>
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<td>3 pg(s)</td>
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**DESTRUCTION CERTIFICATE**

The material listed above has been destroyed according to ANA 484.

**DOCUMENT RECEIPT**

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**RECIPIENT**

[Signature]

[Date]
Memorandum

Feb

For Dr. McDougal:

Mr. Friedman feels that he needs this memorandum urgently. He is convinced that "the Senate will want to pay 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.
MEMORANDUM FOR Mr. Friedman, Deputy Assistant Secretary of Defense for Regional Affairs/IRA

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-6 system when applied to the Cuban reconnaissance problem.

1. Cuban Reconnaissance Coverage: Using the KH-6 launched from the Western Test Range (Attachment II). 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) 6830 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 lead-time for additional KH-6 payloads in 12 months. Currently, five, KH-6's are priced at approximately $250k each (produced, launched, tracked). With a forecast for 80%, 15 KH-6's would be required per year, at a cost of $3.75 million 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...
8 Feb

Colónel Worthman

Lt Col

File: NSAM 311 Temporary File

Mr F. will certainly call

U.S.: Please ask me about this. Be sure to read it carefully for possible error. Mr. F. will certainly call
240-340 North and 240-340 South latitude. Approximately 130 of the 488 priority targets in China could be covered (as a bonus to Cuban operations) and launched at a destination rate of 242

Approximately 130 of the 488 priority targets in China could be covered (as a bonus to Cuban operations) and launched at a destination rate of 242...
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
National Reconnaissance Office

Distribution:
Cy 1 to OSD/ISA
Cy 2 to
Cy 3 to
Cy 4 to RF-1
KH-6 COVERAGE FROM WESTERN TEST RANGE

<table>
<thead>
<tr>
<th>ADDED COST PER YEAR</th>
<th>90% Coverage Every 30 Days</th>
<th>90% Coverage Every 45 Days</th>
<th>90% Coverage Every 60 Days</th>
<th>75% Coverage Every 60 Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. 100% cloud-free photography</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>b. At least 70% cloud-free photography</td>
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</tbody>
</table>

* 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%).
KH-4 COVERAGE FROM WESTERN TEST RANGE

<table>
<thead>
<tr>
<th>ADDED COST PER YEAR</th>
<th>90% Coverage Every 30 Days</th>
<th>90% Coverage Every 45 Days</th>
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</tr>
</thead>
<tbody>
<tr>
<td>100% cloud-free photography</td>
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</tr>
<tr>
<td>At least 70% cloud-free photography</td>
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* This is the present flight schedule (1 per month). It assumes all KH-4 flights on a 3-day synchronous orbit.

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