

MC&G file



DEFENSE INTELLIGENCE AGENCY
WASHINGTON, D. C. 20301

SUBJECT: Collection Program for KH-4 Photography Toward MC&G Requirements

TO: Distribution List

1. The purpose of this memorandum is to summarize factual information concerning the collection program for KH-4 satellite photography toward meeting mapping, charting and geodesy requirements. *HC*

2. Enclosure 1 sets forth summary progress information for each successful KH-4 mission and groups the information in terms of the accomplishments during the first year following USIB approval of the expanded KH-4 program to cover MC&G areas outside the Sino Soviet area (1 May 1965 to 1 May 1966), and for the first four months of the second year. During the period in concern, mapping, charting and geodesy requirement areas outside the Sino Soviet area have increased from approximately 23,000,000 to 24,844,000 square miles (SE Asia and low priority areas in Africa and South America). The square mile data given in enclosure 1 pertains only to those areas of the world for which there is a valid MC&G requirement for KH-4 satellite photography to produce maps, charts and geodetic data.

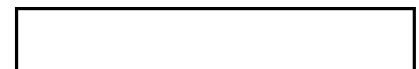
3. The special MC&G missions to be flown in May and August of 1966 set forth in USIB-D-41.14/291, 5 April 1966 represent a continuation of the overall program authorized by USIB on 19 March 1965 (USIB-D-41.14/229). Since Mission 1032 was unsuccessful, the first special MC&G mission in the second year was Mission 1034 accomplished in July 1966. The second special MC&G mission was originally planned for August 1966 as the second pan geometry (PG) mission and is now scheduled for approximately November 1966. In enclosure 1 where only the first half of the mission is identified, the second half of the mission failed or was mono coverage only.

4. Within the Sino Soviet Bloc, mapping, charting and geodesy has benefited very extensively from the search-surveillance program, both in reducing the coverage deficiency in that area to only approximately 500,000 square miles and in recovering limited areas where basic photogrammetric compilation requires coverage in larger unit areas primarily to maintain accuracies in production and secondarily reduce production costs.

5. On 19 March 1965 when USIB approved the two special MC&G missions annually plus 5% to 20% of the search-surveillance take, it was projected that fulfilling the 23,000,000 square mile requirement on a constant level of effort basis would require accomplishment of 12,000,000 square miles

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DIA and NRO review(s) completed.



the first year, 7,000,000 the second, and 4,000,000 the third. While tremendous progress has been made in obtaining KH-4 photography outside the Sino Soviet area, this progress is considerably short of fulfilling the 23,000,000 to 25,000,000 square mile requirement over a three-year period.

6. All data in enclosure 1 can be released with a TALENT KEYHOLE classification, except for the percent allocated to MC&G in columns 4 and 5.



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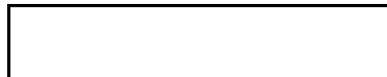
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1 Encl a/s

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COLLECTION PROGRAM FOR KH-4 SATELLITE PHOTOGRAPHY TOWARD MC&G REQUIREMENTS AS OF 15 SEPTEMBER 1966
(Expressed in Millions of Square Miles)

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| USIB APPROVED PROGRAM | MISSION | DATE | % ALLOCATED TO MC&G | | STATUTE SQUARE MILES OF 90-100% CLOUD-FREE STEREO PANORAMIC PHOTOGRAPHY IN MC&G REQUIREMENT AREAS | | | | | | REMARKS |
|---|--------------|--------|-----------------------|---------------------|---|------------------|------------------------|--------------------------|------------------------|-------------------------|-----------------|
| | | | PLANNING ⁷ | ACTUAL ⁵ | WORLD-WIDE | | | OUTSIDE SINO-SOVIET AREA | | | |
| | | | | | GROSS ⁶ | NET ⁷ | NET ACCUM ⁸ | GROSS ⁹ | NET ¹⁰ | NET ACCUM ¹¹ | |
| | 1029-1, 2 | Feb 66 | 8.0 | 7.10 | 2.797 | .337 | 8.855 | .396 | .237 | 7.869 | |
| | 1030-1, 2 | Mar 66 | 10.0 | 9.60 | 2.887 | .220 | 9.075 | .389 | .106 | 7.975 | |
| | 1031-1 | Apr 66 | 15.0 | 9.50 | 1.589 | .175 | 9.250 | .286 | .168 | 8.143 | |
| | | | (S & S Avg) | | | | | | | | |
| | | | 15.5 | 15.00 | | | | | | | |
| 1st Year Sub-Total: | | | | | 32.229 | 9.250 | 9.250 | 11.115 | 8.143 | 8.143 | |
| ----- | | | | | | | | | | | |
| USIB-D-41.14/291 (COMOR-D-13/59) 5 April 1966 | 1032-1, 2 | May 66 | | | | | | | | | Failed to orbit |
| Special Mapping and charting missions in May (50 to 60 percent) | 1033-1, 2 | Jun 66 | | 0 | .031 | -- | -- | -- | -- | -- | Special GMAIC |
| and August 1966; 20 percent of film from search and surveillance missions. | 1034-1, 2 | Jul 66 | 50% | 41.2 | 1.873 | .712 | .712 | 1.717 | .706 | .706 | Special MC&G |
| | 1036-1, 2 | Aug 66 | 15% | 27.30 | 2.731 | .713 | 1.425 | 1.034 | .686 | 1.392 | |
| | | | (S & S Avg) | | | | | | | | |
| | | | 15 | 27.3 | | | | | | | |
| 1st 4 months, 2nd year Sub-Total: | | | | | 4.635 | 1.425 | 1.425 | 2.751 | 1.425 1.392 | 1.392 | |
| ----- | | | | | | | | | | | |
| All Time Total: | | | (S & S Avg) | | 47.816 | 21.627 | 21.262 | 15.262 | 10.931 | 10.931 | |
| | | | 15 | 16 | | | | | | | |
| ----- | | | | | | | | | | | |
| Requirement | | | | | 36.117 | | | 24.844 | | | |
| Deficiency | | | | | | | | | | | |

TOP SECRET

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COLLECTION PROGRAM FOR KH 4 SATELLITE PHOTOGRAPHY TOWARD MC&G REQUIREMENTS AS OF 15 SEPTEMBER 1966
(Expressed in Millions of Square Miles)

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| USIB APPROVED PROGRAM | MISSION | DATE | % ALLOCATED TO MC&G | | STATUTE SQUARE MILES OF 90-100% CLOUD-FREE STEREO PANORAMIC PHOTOGRAPHY IN MC&G REQUIREMENT AREAS | | | | | | REMARKS |
|--|----------------|------------------|-----------------------|---------------------|---|------------------|------------------------|--------------------------|------------------|------------------------|--------------|
| | | | PLANNING ⁷ | ACTUAL ⁵ | WORLD-WIDE | | | OUTSIDE SINO-SOVIET AREA | | | |
| | | | | | GROSS ⁶ | NET ⁷ | NET ACCUM ⁸ | GROSS ⁷ | NET ⁷ | NET ACCUM ⁷ | |
| None | 9031 thru 1018 | Mar 62 Mar 65 | - - | - - | 10,952 | 10,952 | 10,952 | 1,396 | 1,396 | 1,396 | |
| USIB-D-41.14/229 (COMOR -D-13/43) 19 Mar 65 | 1019-1 | May 65 | 25.0 | 25.00 | 1.712 | .673 | .673 | .663 | .663 | .663 | |
| Two special MC&G Missions annually plus 5-20% of film from search and surveillance missions toward meeting 23 million sq. mile requirement outside Sino-Soviet area over a 3 yr. period. | 1021-1 | May 65 | - - | 90.50 | 2.055 | 1.600 | 2.273 | 1.653 | 1.459 | 2.122 | Special MC&G |
| | 1020-1, 2 | Jun 65 | 20-25 | 16.90 | 1.560 | .499 | 2.772 | .525 | .407 | 2.529 | |
| | 1022-1, 2 | Jul 65 | 14 | 10.30 | 2.713 | .824 | 3.596 | .628 | .587 | 3.116 | |
| | 1023-1, 2 | Aug 65 | 5.0 | 10.70 | 1.614 | .406 | 4.002 | .485 | .387 | 3.503 | |
| | 1024-1, 2 | Oct 65 | 5-10 | 6.70 | 2.049 | .312 | 4.314 | .463 | .264 | 3.767 | |
| | 1025-1, 2 | Oct 65 | - - | 90.70 | 5.063 | 2.927 | 7.241 | 3.694 | 2.761 | 6.528 | Special MC&G |
| | 1026-1, 2 | Nov 65 | 5-10 | 9.2 | 2.589 | .474 | 7.715 | .518 | .330 | 6.858 | |
| | 1027-1 | Dec 65 | 50.0 | 48.00 | .947 | .257 | 7.972 | .415 | .250 | 7.108 | |
| | 1028-1, 2 | Jan 66 | 7.0 | 11.9 | 4.654 | .546 | 8.518 | 1.000 | .524 | 7.632 | |