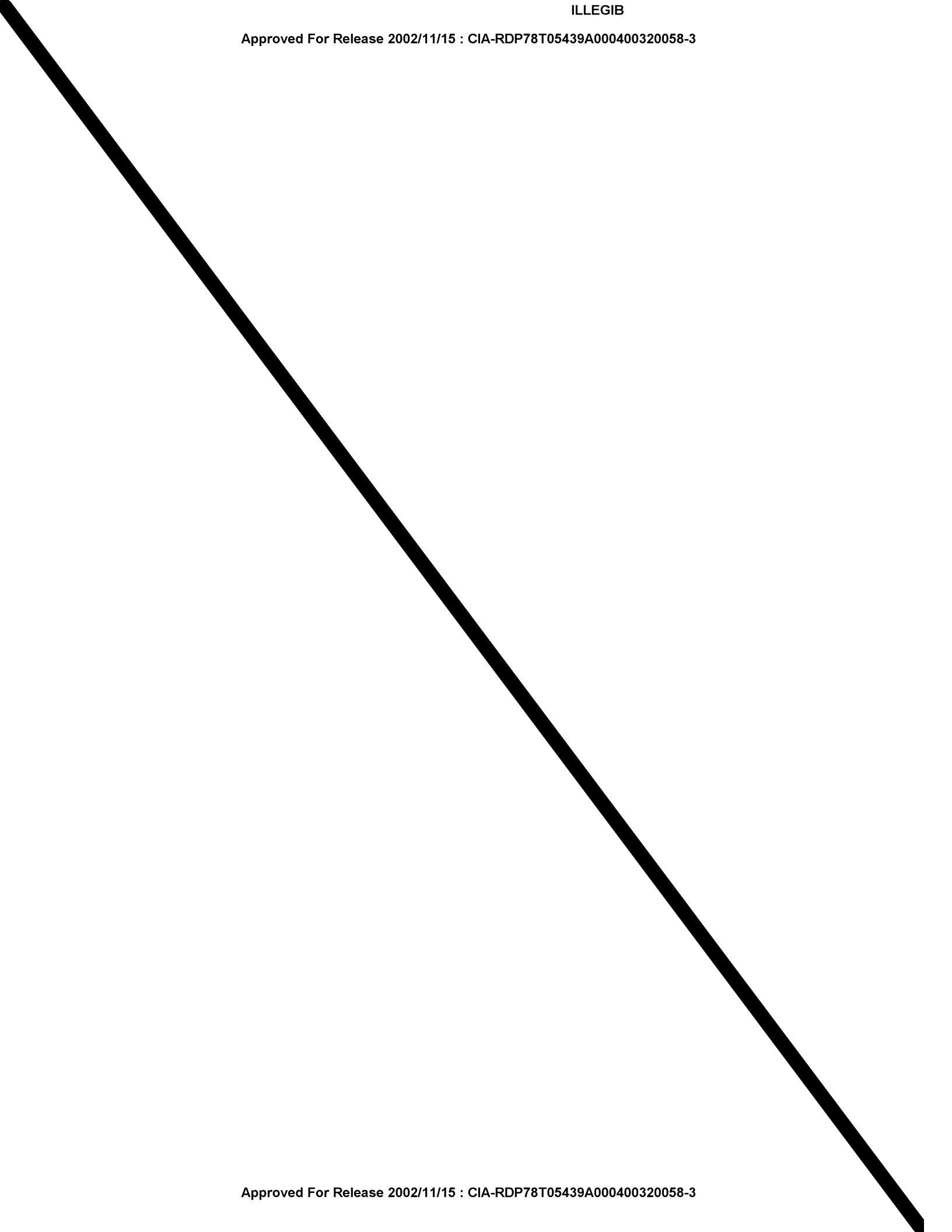


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[Redacted]

[Redacted]

[Redacted]

5 January 1965

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25X1

MEMORANDUM FOR: Director, Technical Service, NRO Staff

25X1A ATTENTION :

[Redacted]

SUBJECT :

COMOR Targets Located on KH-4 Photography

25X1A REFERENCE :

[Redacted]  
(NPIC Project 11817-5)

1. This memorandum is in response to your requirement dated 31 December 1964, which requests the total number of known targets within specific COMOR target categories and a list of the various targets located by KH-4 photography.

25X1A 2. This report is limited to targets covered by aerial photography which has been accomplished since World War II with the exception of [Redacted] systems. All COMOR targets whether active or inactive are considered.

3. A chart and separate overlays depicting KH-4 photographic coverage for each year 1960 through 1964 will be forwarded under separate cover.

4. The following is a summation of the COMOR targets within the categories requested including search targets. The total COMOR targets listed in each category represents the number of targets carried in this program since the inception of the KH-4 program in August 1960.

A. COMOR Category 1A - ICBM Deployment

- 1. Total COMOR Targets - 116
- 2. Total Active COMOR Targets - 28
- 3. A total of 24 ICBM Launch complexes have been identified on KH-4 photography.

Although Tyuratam Missile Test Center was first identified on [Redacted] photography, expansion of launch facilities continues to be observed on KH-4 photography. The remaining three active targets are ICBM search areas.

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Excluded from automatic  
downgrading and  
declassification

TOP SECRET

[Redacted]

[Redacted]

**SUBJECT: COMOR Targets Located on KH-4 Photography**

**B. COMOR Category 1B - IREM and MREM (Including Search Areas)**

1. Total COMOR Targets - 278
2. Total Active COMOR Targets - 42
3. A total of 137 soft MREM sites, 15 soft IREM, 21 hard MREM sites, and 20 hard IREM have been identified on KH-4 photography.

In addition, 71 fixed field MREM sites which are not COMOR targets have been identified on KH-4 photography.

**C. COMOR Category 1C - Research and Development (Including Space)**

1. Total COMOR Targets - 22
2. Total Active COMOR Targets - 7
3. The following targets in this category were first identified on KH-4 photography:
  - a. Makat Field Launch Point (MREM)
  - b. Shuang-Cheng-Tzu Missile Test Center
  - c. Emba Missile - Associated Installation
  - d. Colomb-Bechar/Hammaguir Missile Test Center
4. Although Kapustin Yar/Vladimirovka and Sary Shagan MIC were first identified on [redacted] photography, expansion of facilities continues to be identified on KH-4 photography.

**D. COMOR Category 1D - Missile Production (Including Test)**

1. Total COMOR Targets - 59
2. Total Active COMOR Targets - 13
3. The following targets in this category were first identified on KH-4 photography:
  - a. Peiping Rocket Engine Test Facility Chang-Hsin-Tien
  - b. Kutaisi Motor Vehicle Plant
  - c. Arsenyev Aircraft Plant 116
  - d. Perm Rocket Engine Test Facility
  - e. Sterlitamak Static Test Facility
  - f. Ufa Static Test Facility
  - g. Perm A/C Engine Plant, Stalin 19

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**TOP SECRET****SUBJECT: COMOR Targets Located on KH-4 Photography**

- h. Biysk Static Test Facility
- i. Perm Static Test Facility
- j. Kamensk-Shakhtinskiy Static Test Facility
- k. Isfara Suspect Solid Propellant Facility
- l. Zagorsk Rocket Engine Test Facility
- m. Perm Arms Plant Motovilikha Molotov 172
- n. Krasnoyarsk Arms Plant Voroshilov 4
- o. Krasnoyarsk Explosives Plant Zlobino
- p. Izhevsk Arms and Machine Equipment Plant 71 and 74
- q. Ust Katav Munitions and Railroad Car Plant 13
- r. Votkinsk Arms Machine and Steel Plant 235
- s. Krasnoyarsk Rocket Engine Test Facility
- t. Omsk Rocket Engine Test Facility Gornaya Bitiya
- u. Rybinsk Aircraft Engine Plant 36
- v. Moscow Guided Missile Engine Plant Khimki 456
- w. Moscow/Tushino Aircraft Plant No. 82
- x. Moscow/Guided Missile Plant & Experimental Station Kaliningrad 88
- y. Moscow Aircraft Plant Dolgoprudnyy 464

Although the Voronezh Facility was first identified on [redacted] photography expansion of this installation into a rocket engine test facility was identified on KH-4 photography.

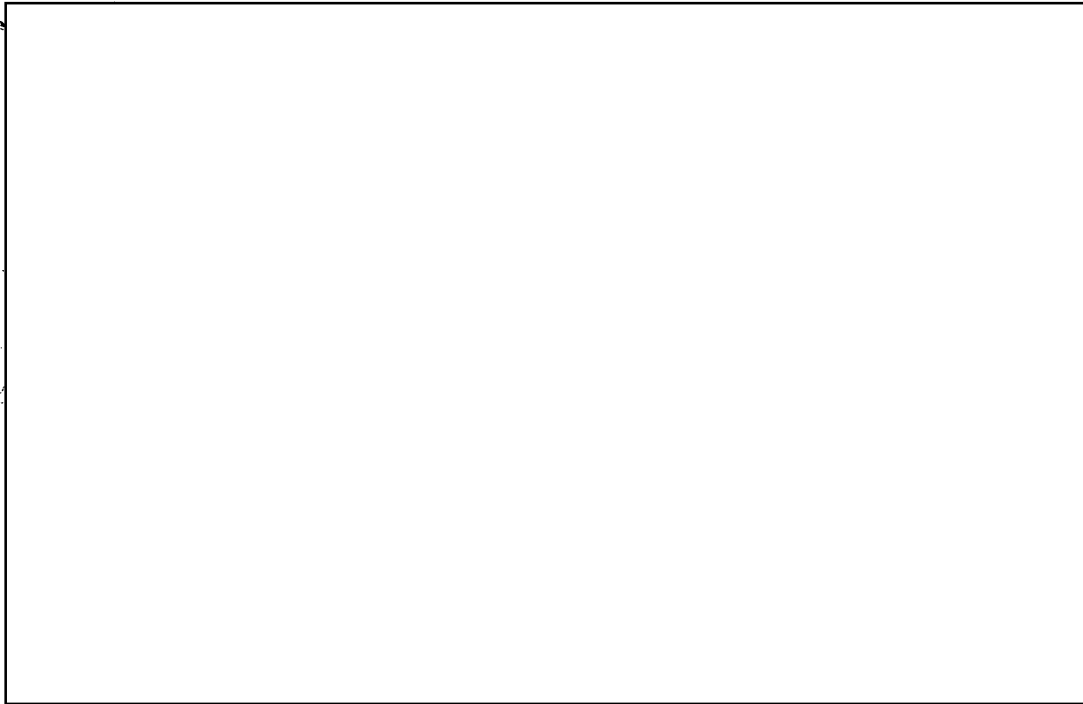
**E. COMOR Category LH - Antimissile Missile:**

- 1. Total COMOR Targets - 41
- 2. Total Active COMOR Targets - 12
- 3. The following targets in this category were first identified on KH-4 photography:
  - a. Moscow SAM Site E 05-1
  - b. Moscow SAM Site E 33-1
  - c. Moscow SAM Site E 24-1
  - d. Moscow SAM Site E 15-1
  - e. Antipinskoye SAM Activity
  - f. Leningrad Probable AMM Complex B 05
  - g. Leningrad Probable AMM Complex D 25
  - h. Leningrad Probable AMM Complex D 34
  - i. Porkhov Early Warning Radar Site
  - j. Tapa Early Warning Radar Site
  - k. Vyborg Early Warning Radar Sites
  - l. Podporozhye Air Warning Radar Site
  - m. Borovichi Early Warning Radar Site
  - n. Sortavala Early Warning Radar Site

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declassification

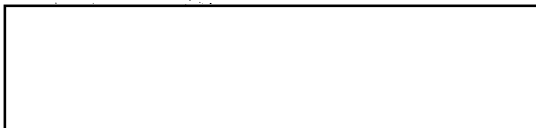
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**SUBJECT: COMOR Targets Located on KH-4 Photography**



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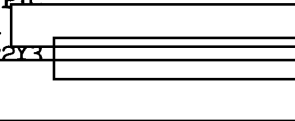
Assistant for Photographic Analysis, NPIC

**Distribution:**

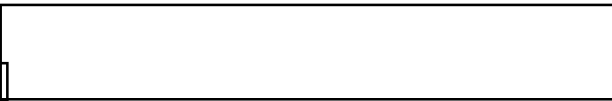
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- 25X1A 3-PAG/NPIC
- 25X1A 4-IPO/PAG/NPIC
- 25X1A 5-S&TD/PAG/NPIC
- 25X1A 6-CIA/PID
- 25X1A 7-OS/NPIC
- 25X1A 8-CSD/NPIC

- 9-DIAXX-4
- 10-NSA/LO/NPIC
- 11-AFNI-BA
- 12-OPNAV 922Y3
- 13-Army/SPA
- 14-DIAXX-2



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SUBJECT: COMOR Targets Located on KH-4 Photography

- o. Angarsk Area, Suspect AMM Activity
- p. Tallinn AMM/SAM Launch Complex
- q. Cherepovets Suspect AMM/SAM Launch Complex U/C
- r. Olenegorsk, Suspect AMM Associated Activity

F. COMOR Category 2A - Aircraft - Long Range Bases:

1. Total COMOR Targets - 51
2. Total Active COMOR Targets - 48
3. The following targets in this category were first observed on KH-4 photography:
  - a. Chepelevka Airfield
  - b. Ostrov Green Bell Airfield
  - c. Borzva Airfield NW
  - d. Belaya Airfield
  - e. Priluki Airfield
  - f. Belaya Tserkov Airfield
  - g. Ryazan/Dyagilevo Airfield
  - h. Zhitomir/Skomorokhi Airfield
  - i. Nezhin Airfield
  - j. Anisovo Gorodishche Airfield
  - k. Gomel/Pribytki Airfield
  - l. Aspidnoye Airfield
  - m. Vorkuta Airfield East
  - n. Mirgorod Airfield
  - o. Kalinin Airfield
  - p. Tartu Airfield

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declassification

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