□ HR70-14

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UNITED STATES INTELLIGENCE BOARD

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US	TB-D-33.4/19
16	August 1961
Co	py No. <u>28</u>

MEMORANDUM FOR THE UNITED STATES INTELLIGENCE BOARD SUBJECT: Soviet Surface-to-Surface Missile Deployment

The attached memorandum (including Tables 1 and 2) from the Chairman of GMAIC is forwarded for review. At the USIB meeting presently scheduled for Thursday, 24 August, the Board will be asked to discuss this paper and act on the recommendations of GMAIC, as set forth in paragraph 4.

TOHN HETRES

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Executive Secretary

HANDLE VIA COMINT-TALENT-KEYHOLE-SENSINT SYSTEMS JOINTLY

USIB-M-169, 24 Aug 61, Item 11 USIB noted findings in report. Also poted statements and actions in para 4B, c, d as requested by CMAIC

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GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE COMMITTEE

USIB-D-33.4/19

16 August 1961

MEMORANDUM FOR: CHAIRMAN, UNITED STATES INTELLIGENCE BOARD

SUBJECT : Soviet Surface-to-Surface Missile Deployment

1. The GMAIC and its Deployment Working Group have completed a detailed review of available all-source evidence on the deployment of intercontinental ballistic missiles (ICBM) and medium range ballistic missiles (MRBM) in the Soviet Union. The review of information necessitates certain changes and up-dating of material incorporated in the GMAIC report Soviet Surface-to-Surface Missile Deployment dated 1 September 1960 which has been released to US agencies. These changes will be distributed when completed.

Based on considerable data, including photography from four satellite reconnaissance missions, our current assessment of Soviet ballistic missile deployment is as follows:

a. Intercontinental Ballistic Missile (ICBM)

Satellite photography has afforded a more confident assessment of ICEM deployment than had been previously possible. In some cases we have been able to confirm or upgrade the evaluation of certain locations. Conversely, the evidence has permitted the downgrading or elimination from consideration at this time of other suspect locations. The ICEM site configurations that have been positively identified are variations of a prototype site first observed in April 1960 TALENT photography of Area C at the Tyura Tam rangehead. The site-complex most exposed to observation has two launch pads per site and four sites (8 launch pads) in the sitecomplex; this may be typical. We cannot say, however, that this site configuration will be the only type identified and deployed in the USSR.

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Our summary of evaluations of ICEM sites-complexes or locations is as follows: (TKH level)

> 3 CONFIRMED O PROBABLE 3 POSSIBLE 3 UNDETERMINED 8 DOUBTFUL 24 NEGATIVE

Although the evaluations as defined in the GMAIC-DWG report were not unanimous in all cases, they reflect the general concensus of GMAIC opinion. Table 1, attached, presents a tabulation of ICEM deployment site-complexes or areas and includes our evaluations through KEYHOLE and non-KEYHOLE bases.

b. Medium Range Ballistic Missiles (MRBM)

GMAIC has also reviewed the findings of its Deployment Working Group on ballistic missile deployment in the Baltic, Belorussian and Carpatho-Ukraine areas, and has concluded that there may be as many as thirty-four (34) MRBM launch sites with a total of 140 launch pads. It appears that there are three basic launch site configurations. All identified launch sites contain four launch pads with the exception of one launch site which may have as many as eight launch pads. From the photography it appears that two launch sites comprise a site-complex. With respect to the status of construction of the launch sites, it can be said that some are probably completed while others are still in various stages of construction.

The missile systems associated with these launch sites are probably the 700 and 1100 nm MREM's. It is possible, however, that some of the sites could be intended for deployment of the 2000 nm IRBM currently estimated to be operational in late 1961 or early 1962. Launch sites deployed in the Baltic, Belorussian, and Carpatho-Ukraine areas contain more permanent facilities than had been previously estimated. This does not mean, however, that more simplified launch sites such as those observed at Makat, Chelkar, and Kapustin Yar could not be used for the MREM. The 700 and 1100 nm MREM's deployed in the above areas would cover all targets in the United Kingdom and Europe with exception of a part of Spain and Portugal. Deployment of the IREM from the same areas would provide coverage of all targets in Europe, the Near East, and North Africa.

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A current assessment of MREM sites covered by satellite photography is listed in Table 2. In addition, we believe that the Soviets have also deployed units in the Maritime Far East and possibly the Black Sea area. It is necessary to correlate the new photographic information with those areas previously suggested as deployment locations in the GMAIC report of 1 September 1960. This task is currently under way, and the results will be distributed as revisions or supplements to the aforementioned document.

2. Approximately one-half of the Soviet Union has been covered by satellite photography of sufficient quality to be meaningful in accessing sites. From this, one possible and two confirmed ICBM site-complexes have been identified at locations on which there was little or no supporting intelligence information, and other areas suspect from other sources have been negated. It is reasonable to assume that there are other ICEM and MREM locations yet to be identified in areas not covered to date by satellite photography. In this respect it should be noted that only some of the confirmed ICEM and MREM sites which we have identified appear to be completed. With reference to site construction, as indicated in Tables 1 and 2, the resolution in KEYHOLE photography does not permit an accurate analysis of the stage of construction. Sites interpreted by the photo-analyst as completed could either be operational or could be as much as six months to a year from operational status.

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4. It is requested that USIB note:

a. The findings of GMAIC concerning ICBM and MRBM deployment.

b. The use of two different evaluations of missile sites as required to safeguard information obtained from satellite photographic missions.

c. The recall of the GMAIC TALENT/SENSINT/COMINT document on deployment since the pertinent information contained therein is available in a document bearing a lower security classification.

d. The preparation and dissemination by GMAIC of KEYHOLE supplements to appropriate US _________agencies holding the COMINT document on Soviet Surface-to-Surface Missile Deployment.

/s/

EARL McFARLAND, Jr. Colonel, USAF Chairman

2 Attachments Table 1 Table 2

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TABLE 1

Summary Evaluations of ICBM Sites and Locations*

LOCATION	EVALUATION		NUMBER OF LAUNCHERS	CONSTRUCTION STATUS
	Including TKH Material**	Excluding TKH Material		
Tyura Tam	Confirmed R&D	Confirmed R&D	5	Completed
Yurya	Confirmed	Probable	8	6 may be compl 2 are u/c
Yoshkar Ola	Confirmed	None	2 Observed	under const.
Plesetsk Area	Possible	Possible	Undetermined	Unknown
Kostroma	Possible	None	1 Observed	2 probably u/c
Dolon- Semipalatinsk Area	-	Possible	Unobserved	Unknown
Ufa Area	-	Undetermined	-	-
Kamyshin Area	Undetermined	Undetermined		-
Svobodny Area	-	Undetermined	-	-
Kola Peninsula	-	Doubtful	-	-
Kirensk Area	-	Doubtful	-	-
Kandagach Area	-	Doubtful	-	-
Alma Ata Area	-	Doubtful	-	-
Frunze Area	-	Doubtful	-	-
Kiyev Area	Doubtful	Doubtful	-	-
Aralsk		Doubtful	-	-

* Evaluations listed as majority positions since there are difference in opinion on some locations.

**Dash (-) Indicates no TKH coverage and the assessment at the lower classification applies.

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TABLE 1 (cont)

Novosibirsk Area	Doubtful	Doubtful	-	-
Polyarnyy Ural	Negative	Possible	-	-
Kapustin Yar	Negative	Doubtful R&D Facility could preparation.	be used only after	extensive
Saratov Engels Area	Negative	Doubtful	-	-
Akmolinsk Area	Negative	Undetermined		-
Carpathian Area	Negative	Doubtful	-	-
Taurage Area	Negative	Doubtful	-	-
Tashkent Area	Negative	Doubtful	-	-
Ust'-Ukhta Area	Negative	Doubtful	-	-
Makat	Negative	Negative	· · ·	-
Nizhnaya Tura Area	Negative	Negative	-	-
Barnaul Area	-	Negative	-	
Yakutsk Area	-	Negative	-	-
Chukotsk Area	Negative	Negative	-	-
Vologda Area	Negative	Negative	-	-
Chakalov Area	Negative	Negative		
Luginy		Negative	-	-
Shepetovka	-	Negative	-	-
Alsunga	-	Negative	-	-
Durbe	-	Negative	-	-
Dundaga	-	Negative		-
Kurmeni	-	Negative	-	-
Piltene	-	Negative	-	-
Slitere	-	Negative	-	-
Volkovysk	<u> -</u>	Negative		

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TABLE 2

TABULATION OF DATA ON CONFIRMED, PROBABLE, AND POSSIBLE MREM LAUNCH AREAS, EUROPEAN USSR

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LOCATION			Construction	Evaluation
Distance and Direction from Reference City*	Coords	Туре	Status	
BALTIC Chernyakhovsk				
22 miles NNW 24 miles NNW 9 miles NE	54-58-30N 21-28-5 54-58-30N 21-36-3 54-43-30N 22-04-5	30E Inline	Completed Completed Completed or in late stage	Confirmed Confirmed Confirmed
9 miles NE 22 miles WSW 21 miles WSW 29 miles NE 25 miles WNW	54-41-00N 22-04-5 54-32-50N 21-12-(54-35-40N 21-12-(55-00-50N 22-21-3 54-45-05N 21-09-(OOE Inline OOE Probable 30E	Inline Probably U/C Poss.mid-stag Inline Undetermined	Probable e Confirmed
Kartene				
9 miles NE 6.5 miles ENE	56-02-00N 21-42-0 55-59-30N 21-39-3		Completed Completed	Confirmed Confirmed
Paplaka				
6.5 miles WSW 7.0 miles WSW	56-24-40N 21-16-(56-23-50N 21-16-(Completed Completed	Confirmed Confirmed
BELORUSSIA Brest				
7 miles NNE	52-33-00N 24-07-0	OOE Inline	U/C	Confirmed
Gomel				
10 miles W 10 miles SW	52-24-45N 30-39-1 52-18-45N 30-42-:		U/C U/C	Confirmed Confirmed

* The GMAIC Deployment Working Group is currently re-examining MRBM site evaluations, as well as the designation of the reference city for each site. It is anticipated that many of the names will be revised, and these changes will be incorporated in the Deployment Working Group report.

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CARPATHO-UKRAINE

Drogobych				
4.5 miles NE	49-25-00N 23-34-30E	Dumbbell	u/c	Confirmed
10 miles E	49-22-20N 23-45-00E	Dumbbell	U/C	Confirmed
Kamenets-Polol'skiy				
20.5 miles NW	48-51-30N 26-08-30E	Dumbbell	Completed	Confirmed
24 miles NW	48-53-00N 26-03-30E	Dumbbell	Completed U/C	Confirmed Confirmed
12 miles NE	48-51-10N 26-43-00E	Inline	0/0	Continued
Mukachevo				
12 miles SW	48-18-30N 22-30-30E	Rectangular	u/c	Confirmed
8 miles SSW	48-19-30N 22-37-30E	Rectangular	u/c	Confirmed
Ovruch				
29 miles NE	51-43-55N 29-12-30E	Rectangular	U/C	Confirmed
27 miles NE	51-42-00N 29-12-50E	Rectangular	Completed or	Confirmed
33 miles WSW	51-08-50N 28-00-30E	Rectangular	in late stage Completed	Confirmed
30 miles WSW	51-10-00N 28-03-00E	Rectangular	Completed	Confirmed
20 miles W	51-16-50N 28-15-00E	Rectangular	Completed	Confirmed
34 miles SSW	50-52-10N 28-18-30E	Inline	Completed or in late stage	Confirmed
Stanislav			· · · · · · · · · · · · · · · · · · ·	
Dealitistav				
18 miles S	48-38-45N 24-43-30E	Dumbbell	u/c	Confirmed
16 miles S	48-50-00N 24-48-30E	Dumbbell	Completed	Confirmed
26 miles NW	49-06-00N 24-08-00E	Probable mod ified dumbbe	1- Completed	Probable
27 miles NW ·	49-04-00N 24-04-30E		i- Completed	Probable
•		ified dumbbe		
<u>Uman</u> *				
	10 co how so on 1	.		
13.5 miles NE 49 miles SE	48-53-40N 30-27-45E 48-02-30N 29-33-30E	Dumbbell	U/C	Confirmed
47 TITES DE	40-02-3011 29-33-30E	Inline	Completed	Confirmed

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