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TOP SECRET RUFF

25X1

M/EB 51/65
19 February 1965
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25X1

MEMORANDUM FOR: Chief, Forces Division, ORR

ATTENTION: [redacted] Strategic Missiles Branch

FROM: Chief, Photographic Intelligence Division, CIA

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

SUBJECT: Construction Timing at Soviet Single Silo ICBM Sites

REFERENCE: (a) Requirement C-RR-4, 82, 041
 (b) CIA/PID Project 30230-5
 (c) Memorandum (M/EB 565/64)
 (d) Memorandum (M/EB 30/65)

25X1

1. This memorandum is in response to your requirement dated 3 February 1965 which requests an updating of information contained in previous memorandums (References c and d above) to include the construction status of all Soviet single silo ICBM sites observed on [redacted]

25X1

2. Contained herein as attachments is information concerning 53 single silos which were not reported on in earlier memorandums. These include the following single silo launch sites.

25X1

- a. Tyuratam - K-3
- b. Uzhur - Possible G and H
- c. Gladkaya - Launch Group F, Sites 1 to 10 (Sites 5, 8 and 10 are carried as suspect or possible)
- d. Drovyanaya - Launch Group G, Sites G-1 to 11 (Sites 10 and 11 are carried as suspect or possible)
- e. Olovyannaya - Launch Group E, Sites 1 to 10
- f. Tatishcheyo - Launch Group A, Sites 1 to 11 (10 sites total; site 4 has been deleted) Launch Group B, Sites 1 to 8 (six sites total; Sites 5 and 7 have been deleted)

Definitions of the various stages of silo and guidance/control construction used in this listing remain unchanged from the previous memorandum.

3. The attached tabulation lists the status of construction of each launch site as observed on [redacted] that was included in the initial memorandum on the subject (reference c).

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GROUP 1
Excluded from automatic
downgrading and
declassification

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SUBJECT: Construction Timing at Soviet Single Silo
ICBM Sites

M/EB 51/65

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4. Nine single silos have been identified to date at Tyuratam and in addition CIA/PID now carries a total of 94 sites of this type under construction in the field. Of the 43 larger (30 feet in diameter) silos such as those found at Aleysk, Dombarovskiy, etc., six are at Tyuratam. At the test center these can be grouped into two sets of three silos with an "L" electronics facility serving each set. Cable scars connect Complex I with B-2 and A-3 and connect G-7 with K-1 and 2. In the field "L" electronic facilities have been identified under construction at Imeni Gostello Launch Area D, Uzhur Launch Area B, and Dombarovskiy Launch Area B. Four of the six deployed complexes of this type consist of six launch areas each while Dombarovskiy has had only five launch areas identified to date and Uzhur has a total of eight, two of them in an extremely early stage of construction.

5. CIA/PID now carries a total of 60 of the smaller 16 foot diameter silos such as found at Tatishchevo, Olovyannaya, etc.. Of these, three are at Tyuratam and five of the remaining 57 deployed sites are listed as only suspect or possible. This type of silo appears to be deployed in groups of ten silos, interconnected by buried cables and served by a single launch control/guidance facility. Control/guidance facilities have been identified at Tyuratam Complex K, Olovyannaya Launch Groups D and E and Tatishchevo Launch Group A. At Tatishchevo the image initially identified as Site A-4 has been determined to be a borrow pit and the items identified as Sites B-5 and B-7 have towers resembling oil derricks associated with them and do not reflect single silo construction techniques.

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7. This project is considered to be complete.

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Enclosures:

- 1 - One table (CIA/PID/MEB-101/65)
- 2 - Six tables of construction timing - 50 pages (CIA/PID/MEB-P-47/65 thru P-52/65)

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CIA/PID/MEB-P-101/65
Attachment to:
TCS 1899/65

TABULATION OF STATUS OF CONSTRUCTION

<u>Complex</u>	<u>Launch Site</u>	<u>Silo</u>	<u>Stage of Construction</u>	
				<u>Guidance/Control (if present)</u>
Tyuratam	A-3	VI-A		
	B-2	VI-A		
	G-7	V		(VI-B)
	I	VI-A		(VI-B)
	K-1-2	Identification only		
	G-8-9	IX		
Aleysk	A	IV-A		
	B	IV-A		
	C	IV-A		
	D	Identification only		
	E	IV-A		
	F	Identification only		
Dombarovskiy	A	V		
	B	IV-A		(IV-B)
	C	IV-A		
	D	IV-A		
	E	III		
Imeni Gastello	A	IV-A		
	B	IV-A		
	C	IV-A		
	D	IV-A		(IV-B)
	E	IV-A		
	F	IV-A		
Kartaly	A	IV-A		
	B	V		
	C	Identification only (possible IV-B)		
	D	V		
	E	Identification only		
	F	Identification only		

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P-101/65

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Uzhur

A	IV-A	
B	IV-A	(VI-B)
C	IV-A	
D	IV-A	
E	IV-A	
F	IV-A	

Zhangiz Tobe

A	Not observed
B	Not observed
C	Not observed
D	Not observed
E	Identification only
F	Identification only

Drovyannaya

D-1	VII	
D-2	VII	
D-3	Identification only	
D-4	VI-A	
D-5	V	
D-6	V	
D-7	VII	(VI-B)
D-8	VII	
D-9	Identification only	
D-10	Identification only	

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SINGLE SILO ICBM CONSTRUCTION TIMING

COMPLEX TYURA TAM

LAUNCH AREA K-3

	1963				1964				1965									
	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd						
	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q						
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
NEG					*													NEG
I																		I
II																		II
III																		III
IVa																		IVa
IVb								*										IVb
V								*										V
VIa								*										VIa
VIb								*	*	*			*					VIb
VII										*								VII
VIII																		VIII
IX																		IX
ID ONLY								*										ID ONLY

LAUNCH CONTROL CENTER
15711 574

★ COMPLETE ★

COVERAGE BY MISSION

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

CIA/PID/ADB-P-47/65
Attachment to:
02/28 21/65

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STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	1st QTR 1963	2nd QTR 1963	3rd QTR 1963	4th QTR 1963	1st QTR 1964	2nd QTR 1964	3rd QTR 1964	4th QTR 1964	1st QTR 1965	2nd QTR 1965	3rd QTR 1965	4th QTR 1965
NEG												
I												
II												
III												
IVa												
IVb												
V												
VIA												
VIB												
VII												
VIII												
IX												
ID												
ONLY												

COMPLEX V2H32
SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA G
pos

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CIA/RID/MBB-P-48/65
Attachment to:
MJEB-51/65

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STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

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STAGE	COMPLEX				LAUNCH AREA					
	3rd QTR 1963	4th QTR 1963	1st QTR 1964	2nd QTR 1964	3rd QTR 1964	4th QTR 1964	1st QTR 1965	2nd QTR 1965	3rd QTR 1965	4th QTR 1965
NEG										
I						*				
II							*			
III										
IVa										
IVb										
V										
Via										
Vib										
VII										
VIII										
IX										
IX ID ONLY										

COMPLEX WZHU R

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA H - (Poss)

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TOP SECRET RUFF

CIA/PID/NEB-P-48/65

5-16440

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX				LAUNCH AREA						
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965	
IX ID ONLY											
VIII											
VII											
VIb											
VIa											
V											
IVb											
IVa											
III											
II											
I											
NBS											

COMPLEX

OLOVYANNAYA

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA

7 (E-2)

COVERAGE BY MISSION

*Forward
Rank Pattern Development*

TOP SECRET RUFF

CIA/PID/MEB-P-49/65

S-16440

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions).

STAGE	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEC										
I					*					
II					*					
III					*					
IVa					*					
IVb										
V										
VIa										
VIb										
VII										
VIII										
IX										
IX ID										
ONLY										

COMPLEX OCEVYANNAYA

SINGLE SILO ICBM CONSTRUCTION FINDING

LAUNCH AREA YE (E-3)

COVERAGE BY MISSION

*Cancelled
and pattern developing
1 July*

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S-16440

CIA/PTD/MEB-P-49/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG
I
II
III
IVa
IVb
V
VIa
VIb
VII
VIII
IX
ID ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG										
I										
II										
III										
IVa										
IVb										
V										
VIa										
VIb										
VII										
VIII										
IX										
ID ONLY										

COMPLEX Oleoyama 11A

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA 46 (E-5)

COVERAGE BY MISSION

*Fixed
and mobile development*

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S-16440

CIA/PID/MEB-P-49/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Mayaraya</u>				LAUNCH AREA <u>(E6)</u>						
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965	
NEG											
I											
II											
III											
IVa											
IVb											
V											
VIa											
VIb											
VII											
VIII											
IX											
ID											
ONLY											

COVERAGE BY MISSION

100% Fenced

25X1

TOP SECRET RUFF

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CIA/PID/MEB-P-49/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1



STAGE	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG					★					
I					★					
II										
III						★				
IVa						★				
IVb						★				
V							★			
VIA										
VIB										
VII										
VIII										
IX										
XD										
ONLY										

COMPLEX Olevyanaya

SINGLE SILE ICBM CONSTRUCTION TIMING

LAUNCH AREA 27 (5-7)

No inventory
Paso. 1 small only

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-49/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Olayana</u>				LAUNCH AREA <u>E8</u>						
	3rd QTR 1963	4th QTR 1963	1st QTR 1964	2nd QTR 1964	3rd QTR 1964	4th QTR 1964	1st QTR 1965	2nd QTR 1965	3rd QTR 1965	4th QTR 1965	
NEG											
I					*						
II						*					
III							*				
IVa								*			
IVb											
V											
VIA											
VIB											
VII											
VIII											
IX											
ID											
ONLY											

COVERAGE BY MISSION

2 WAP

25X1

TOP SECRET RUFF

CIA/PID/MEB-P- 49/65

5-16440

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG	J	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	NEG
I	A	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	QUARTER	I
II	S	1963	1963	1964	1964	1964	1964	1965	1965	1965	1965	1965	1965	1965	1965	II
III	O															III
IVa	N															IVa
IVb	D															IVb
V	J															V
VIA	F															VIA
VIB	M															VIB
VII	A															VII
VIII	J															VIII
IX	J															IX
IX ID ONLY	F															IX ID ONLY

COMPLEX Olevyannaya SINGLE SITO ICBM CONSTRUCTION TIMING LAUNCH AREA E-9

COVERAGE BY MISSION

2 WOP

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-49/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG I II III IVa IVb V VIa VIb VII VIII IX ID ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			★							
I										
II										
III										
IVa										
IVb										
V				★	★					
VIa					★					
VIb						★				
VII										
VIII										
IX										
ID										
ONLY										

COMPLEX PALTSCHEROV

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA A-1

COVERAGE BY MISSION

Handwritten note: No ICBM in silo complete

CIA/PID/MEB-P-50/65
Attachment to:

Handwritten: MIA 51/65

25X1

25X1

S-16440

TOP SECRET RUFF

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX TATTSCHERO				LAUNCH AREA A-2					
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			*							
I										
II				*						
III					*					
IVa					*					
IVb						*				
V						*				
VIA							*			
VIB								*		
VII										
VIII										
IX										
ID										
ONIX										

COVERAGE BY MISSION

25X1

TOP SECRET RUFF

-5-16440

CIA/PID/MEB-P-50/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1

SINGLE SILO ICBM CONSTRUCTION TIMING

COMPLEX TATISCHENO

LAUNCH AREA A-3

STAGE	COMPLEX TATISCHENO				LAUNCH AREA A-3						
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965	
NEG			*								
I				*							
II											
III					*						
IVa						*					
IVb											
V											
VIA											
VIB											
VII											
VIII											
IX											
ID ONLY											

COVERAGE BY MISSION

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-50/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG I II III IVa IVb V VIa VIb VII VIII IX ID ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			★							
I										
II										
III										
IVa										
IVb										
V				★						
VIa										
VIb										
VII										
VIII										
IX										
ID ONLY										

COMPLEX TATTSCHIEVO

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA A-7

COVERAGE BY MISSION

TOP SECRET RUFF

5-16440

CIA/PID/MEB-P-50/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1

COVERAGE BY MISSION

STAGE	COMPLEX TATISCHENVO				LAUNCH AREA A-9						
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965	
NEG											
I											
II											
III											
IVa											
IVb											
V											
VIA											
VIB											
VII											
VIII											
IX											
ID											
ONIX											

TOP SECRET RUFF

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CIA/PID/MEB-P-50/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1

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STAGE	COMPLEX <u>T. Tischer</u>								LAUNCH AREA <u>A-10</u>								
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965	3rd Q 1965	4th Q 1965					
NEG																	
I																	
II																	
III																	
IVa																	
IVb																	
V																	
VIA																	
VIB																	
VII																	
VIII																	
IX																	
IX ID ONLY																	

5-16440

TOP SECRET RUFF

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TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

Clearing
Res. or
VZ

NEG

I

II

III

IVa

IVb

V

VIA

VIB

VII

VIII

IX

ID

ONLY

Complex	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
LAUNCH AREA										
TUTTSCHAU										
SINGLE SILO ICBM CONSTRUCTION FINING										

COMPLEX

TUTTSCHAU

SINGLE SILO ICBM CONSTRUCTION FINING

LAUNCH AREA

A-11

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TOP SECRET RUFF

CIA/PID/MEB-P-50/65

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TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG										
I										
II										
III										
IVa										
IVb										
V										
VIA										
VIB										
VII										
VIII										
IX										
ID										
ONLY										

COMPLEX

Taishcheva

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA

B-2 (Prob)

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50/65

25X1

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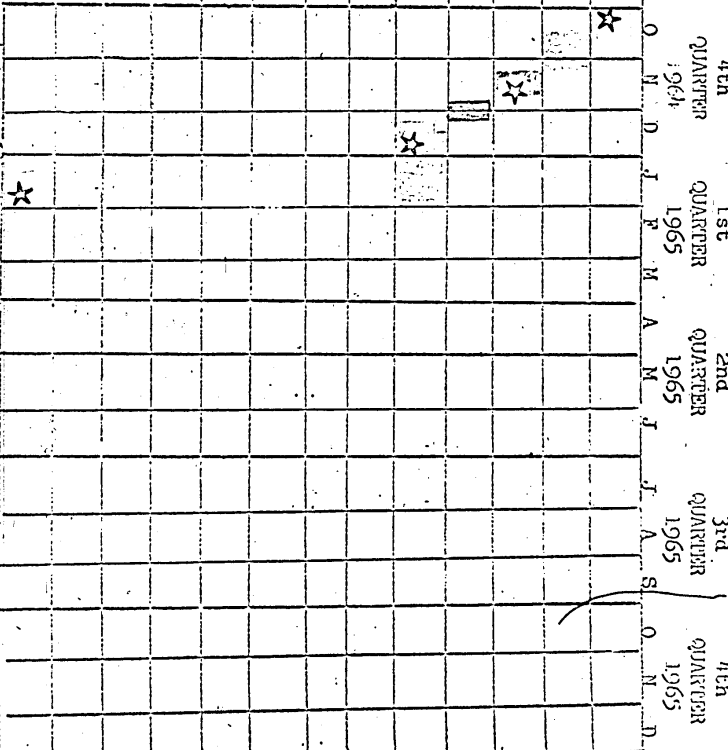
STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG										
I										
II										
III										
IVa										
IVb										
V										
VIA										
VIB										
VII										
VIII										
IX										
IX ID										
IX ID ONLY										

COMPLEX *Taishchev*

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA *B-3*



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CIA/PID/MEB-P-50/65

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STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	I A S O N D J F M A M J J A S O N D	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG											
I											
II											
III											
IVa											
IVb											
V											
Via											
Vib											
VII											
VIII											
IX											
ID											
ONLX											

COMPLEX Ta Tich & h 10 SINGLE SILO ICBM CONSTRUCTION TIMING
LAUNCH AREA B-4 (Prob.)

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CIA/PID/MEB-P-50/65

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STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	1st QTR 1963	2nd QTR 1963	3rd QTR 1963	4th QTR 1963	1st QTR 1964	2nd QTR 1964	3rd QTR 1964	4th QTR 1964	1st QTR 1965	2nd QTR 1965	3rd QTR 1965	4th QTR 1965
NEG						*						
I							*					
II							*					
III								*				
IVa												
IVb												
V												
VIA												
VIB												
VII												
VIII												
IX												
XD												
OMIX												

COMPLEX Tatishchevo
SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA B-6

1st QTR 1964 - 1st QTR 1965

COVERAGE BY HISSTON

*Probably missed
2 holes*

25X1

TOP SECRET RUFF

S-16440

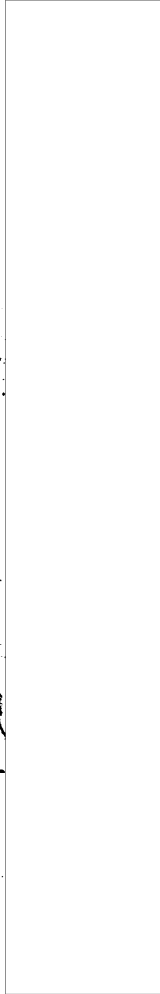
CIA/PID/MEB-P-50/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG
I
-II
III
IVa
IVb
V
VIa
VIb
VII
VIII
IX
ID
ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG										
I										
-II										
III										
IVa										
IVb										
V										
VIa										
VIb										
VII										
VIII										
IX										
ID										
ONLY										



COVERED BY MISSION

2040

COMPLEX Tatshchevo

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA B-8 (P. 01)

NEG
I
II
III
IVa
IVb
V
VIa
VIb
VII
VIII
IX
ID
ONLY

TOP SECRET RUFF

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CIA/PID/NEB-P-50/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Clockwork</u>				LAUNCH AREA <u>F1</u>					
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
MEG			*							
I										
II										
III				*	*					
IVa										
IVb										
V										
Via						*	*	*	*	
Vib										
VII										
VIII										
IX										
ID										
ONLY					*	*				

COVERAGE BY MISSION

S. D. K. 1/2
No. 1000

TOP SECRET RUFF

CIA/PID/MEB-P-51/65
Attachment

12/13 51/65

5-16440

25X1

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1

STAGE	COMPLEX <u>Clayton</u>				LAUNCH AREA <u>F-2</u>						
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965	
NEG											
I			*								
II											
III											
IVa											
IVb											
V					*						
VIA											
VIB											
VII											
VIII											
IX											
XD					*						
ONLY					*		*	*			

COVERAGE BY MISSION

TOP SECRET RUFF

S-16440

CIA/PID/WEB-P-51/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Gledkey</u>				LAUNCH AREA <u>F-3</u>					
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			*							
I										
II										
III										
IVa										
IVb										
V					*					
Vla										
Vlb										
VII										
VIII										
IX										
IX ID ONLY										

25X1

SINGLE SILO ICBM CONSTRUCTION TIMING

COMPLEX

Gledkey

LAUNCH AREA

F-3

COVERED BY [unclear]

6 [unclear]
2-3 drawings visible on 9-22
note to location of ground crew area, section 8-1 (see 5/15)

TOP SECRET RUFF

5-16440

CIA/PID/NEB-P-51/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Glednyay</u>				LAUNCH AREA <u>E-4</u>					
	3rd QTR 1963	4th QTR 1963	1st QTR 1964	2nd QTR 1964	3rd QTR 1964	4th QTR 1964	1st QTR 1965	2nd QTR 1965	3rd QTR 1965	4th QTR 1965
NEG										
I				*						
II				*						
III										
IVa							*			
IVb							*			
V							*			
Via										
Vib										
VII										
VIII										
IX										
ID										
ONLY										

COVERAGE BY MISSION

3644

TOP SECRET RUFF

S-16440

CIA/PID/NEB-P-51/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1

STAGE	COMPLEX <u>Glakrya</u>				LAUNCH AREA <u>F-5 0/E</u>						
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965	
MEG											
I											
II											
III											
IVa											
IVb											
V											
VIA											
VIB											
VII											
VIII											
IX											
ID ONLY											

COVERAGED BY MISSION

TOP SECRET RUFF

S-16440

CIA/PLD/MEB-P-51/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE OF CONSTRUCTION	COMPLEX <u>Chakravya</u>												LAUNCH AREA <u>F-6</u>									
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965												
NEG																						
I			*																			
II																						
III																						
IVa																						
IVb																						
V																						
Via																						
Vib																						
VII																						
VIII																						
IX																						
IX ID ONLY																						
IX ID ONLY																						

COVERAGE BY MISSION

3 Missions

TOP SECRET RUFF

S-16440

CIA/PID/NEB-P-51/65

25X1

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG										
I				*						
II										
III										
IVa						*				
IVb						*				
V										
VIA										
VIB										
VII										
VIII										
IX										
ID										
ONLY					*	*				

COMPLEX

Chakravya

SINGLE SITO ICBM CONSTRUCTION TIMING

LAUNCH AREA

F-7

COVERAGE BY MISSION

TOP SECRET RUFF

S-16440

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

25X1

STAGE	COMPLEX				LAUNCH AREA						
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965	
NEG											
I			*								
II											
III											
IVa											
IVb											
V											
Via											
Vib											
VII											
VIII											
IX											
ID ONLY											

COMPLEX Chickney SINGLE SILO ICBM CONSTRUCTION TIMING
LAUNCH AREA F-8 Susp.



2000
Seen in: 06, 08, 10, 15, 16
No sig. identified

TOP SECRET RUFF

S-16440

GIA/BID/MEB-P-51/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <i>Chadanya</i>				LAUNCH AREA <i>F-9</i>					
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965
NEG			*							
I										
II										
III										
IVa										
IVb										
V					*					
VIA					*					
VIB					*					
VII										
VIII										
IX										
ID ONLY										

COVERAGE BY MISSION

Y. W. W. W.

25X1

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-51/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Glaukeya</u>				LAUNCH AREA <u>F-12 (Poss)</u>						
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965	
NEG											
I			*								
II											
III											
IVa						*					
IVb											
V											
VIA											
VIB											
VII											
VIII											
IX											
ID ONLY											

COVERAGE BY MISSION

3-16-65

Section 8-2, 1b-1

TOP SECRET RUFF

5-16440

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Davyanaya</u>				LAUNCH AREA <u>C-1</u>						
	3rd Q 1963	4th Q 1963	1st Q 1964	2nd Q 1964	3rd Q 1964	4th Q 1964	1st Q 1965	2nd Q 1965	3rd Q 1965	4th Q 1965	
NEG			*								
I											
II											
III					*						
IVa					*						
IVb											
V						*					
Via											
Vib											
VII											
VIII											
IX											
ID ONLY					*	*	*				

25X1

COVERAGE BY MISSION

12009

TOP SECRET RUFF

CIA/PID/MEB-P-52/65
Attachment to:

5-16440

25X1

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG	COMPLEX <u>Davyanaya</u>				LAUNCH AREA <u>G-2</u>					
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
I			*							
II										
III					*					
IVa										
IVb										
V					*					
Via						*				
Vib						*				
VII						*				
VIII						*				
IX						*				
ID						*				
ONLY						*				

COVERED BY REDACTION

2-3644

TOP SECRET RUFF

S-16440

CIA/PID/WEB-P-52/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG
I
II
III
IVa
IVb
V
VIa
VIb
VII
VIII
IX
ID ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			*							
I										
II										
III										
IVa										
IVb										
V					*					
VIa						*				
VIb						*				
VII										
VIII										
IX					*					
ID ONLY						*				

COMPLEX

Davyanaya

SINGLE SILO ICBM CONSTRUCTION TIMING

LAUNCH AREA

G-3

COVERABLE BY MISSION

1644

TOP SECRET RUFF

S-16440

CIA/PID/NEB-P-52/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG I II III IVa IVb V VIa VIb VII VIII IX ID ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG										
I										
II										
III										
IVa										
IVb										
V										
VIa										
VIb										
VII										
VIII										
IX										
ID ONLY										

COMPLEX

Devyahaya

SINGLE SITO ICBM CONSTRUCTION TIMING

LAUNCH AREA

E-4

COVERAGE BY MISSION

1. 10/1/65

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-52/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE OF CONSTRUCTION	COMPLEX <u>Davyanaya</u>				LAUNCH AREA <u>C-5</u>						
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965	
NEG											
I			*								
II											
III											
IVa											
IVb											
V					*	*	*				
VIA						*	*				
VIB						*	*				
VII											
VIII											
IX					*	*					
ID											
ONLY											

COVERAGE BY MISSION

15449

TOP SECRET RUFF

S-16440

CIA/PID/HRB-P-52/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

NEG I II III IVa IVb V VIa VIb VII VIII IX ID ONLY

	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			*							
I										
II										
III					*	*				
IVa					*	*				
IVb										
V						*				
VIa						*				
VIb						*				
VII						*				
VIII						*				
IX						*				
ID ONLY						*				

COMPLEX

Davyanaya

SINGLE SITO ICBM CONSTRUCTION TRAINING

LAUNCH AREA

C-7

COVERAGE BY HISSTION

TOP SECRET RUFF

5-16440

CIA/PID/MEB-P-52/65

25X1

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
NEG			*							
I										
II										
III					*					
IVa										
IVb					*					
V										
VIA						*				
VIB						*				
VII						*				
VIII						*				
IX						*				
ID						*				
ONLY						*				

COMPLEX Dreyannaya

SINGLE SITE ICBM CONSTRUCTION TIMING

LAUNCH AREA C-8

COVERAGE BY MISSION

1 W 64

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-52/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <i>Dryanayana</i>				LAUNCH AREA <i>C-9</i>			
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965
NEG			*					
I								
II								
III								
IVa					*			
IVb						*		
V						*		
VIA								
VIB								
VII								
VIII								
IX								
ID								
ONLY								

COVERAGE BY MISSION

25X1

TOP SECRET RUFF

S-16440

CIA/PID/NEB-P-52/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX <u>Drelyannaya</u>				LAUNCH AREA <u>G-10 Susp.</u>						
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965	
NEG											
I											
II											
III											
IVa											
IVb											
V					2						
Via											
Vib											
VII											
VIII											
IX											
ID											
OMIX											

COVERAGE BY MISSION

25X1

TOP SECRET RUFF

S-16440

CIA/PID/MEB-P-52/65

TOP SECRET RUFF

STAGE OF CONSTRUCTION
(See separate legend for stage descriptions)

STAGE	COMPLEX				LAUNCH AREA					
	3rd QUARTER 1963	4th QUARTER 1963	1st QUARTER 1964	2nd QUARTER 1964	3rd QUARTER 1964	4th QUARTER 1964	1st QUARTER 1965	2nd QUARTER 1965	3rd QUARTER 1965	4th QUARTER 1965
MEG										
I										
II										
III										
IVa										
IVb										
V					?					
Via										
Vib										
VII										
VIII										
IX										
ID		*	*		*	*	*	*		
ONLY						*				

COMPLEX Davyanaya SINGLE SILO ICBM CONSTRUCTION TIMING
LAUNCH AREA Cell 1055

COVERAGE BY MISSION

25X1

S-16440

TOP SECRET RUFF

CIA/PID/MEB-P-52/65