

NPIC/R-5111/64

December 1964

TCS-10648/64

Copy 66

15 Pages



PHOTOGRAPHIC INTERPRETATION REPORT

# ICBM COMPLEX DOMBAROVSKIY, USSR

Declass Review by NIMA/DOD



CIA



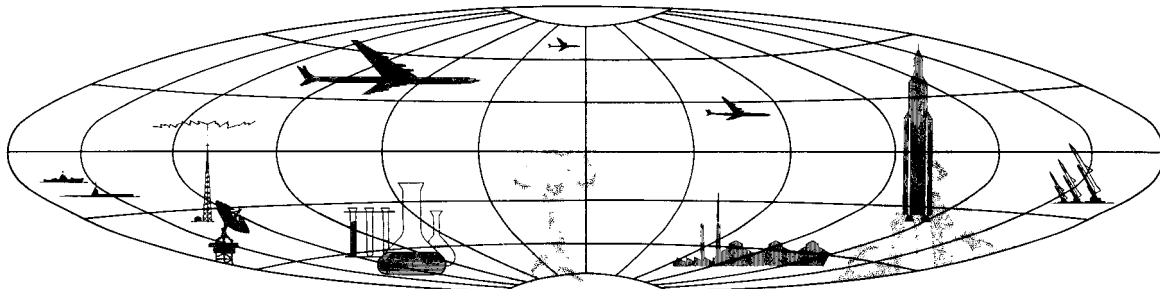
DIA

Handle Via TALENT-KEYHOLE Control Only

WARNING

This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



GROUP 1  
Excluded from automatic  
downgrading and declassification

Approved For Release 2000/06/14 : CIA-RDP78B04560A004300010019-1  
Handle Via  
TALENT-KEYHOLE  
Control System Only

~~TOP SECRET RUFF~~

TCS-10648/64

PHOTOGRAPHIC INTERPRETATION REPORT

ICBM COMPLEX  
DOMBAROVSKIY, USSR

NPIC/R-5111/64  
December 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Handle Via  
TALENT-KEYHOLE  
Control System Only

Approved For Release 2000/06/14 : CIA-RDP78B04560A004300010019-1

~~TOP SECRET RUFF~~

TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

25X1A

TCS-10648/64  
NPIC/R-5111/64

Launch Site A (TDI Site 4)	51-11N 59-38E
Launch Site B (TDI Site 3)	51-07N 59-38E
Launch Site C (TDI Site 2)	51-01N 59-43E
Launch Site D (TDI Site 1)	50-58N 59-32E
Launch Site E (TDI Site 5)	51-05N 59-30E

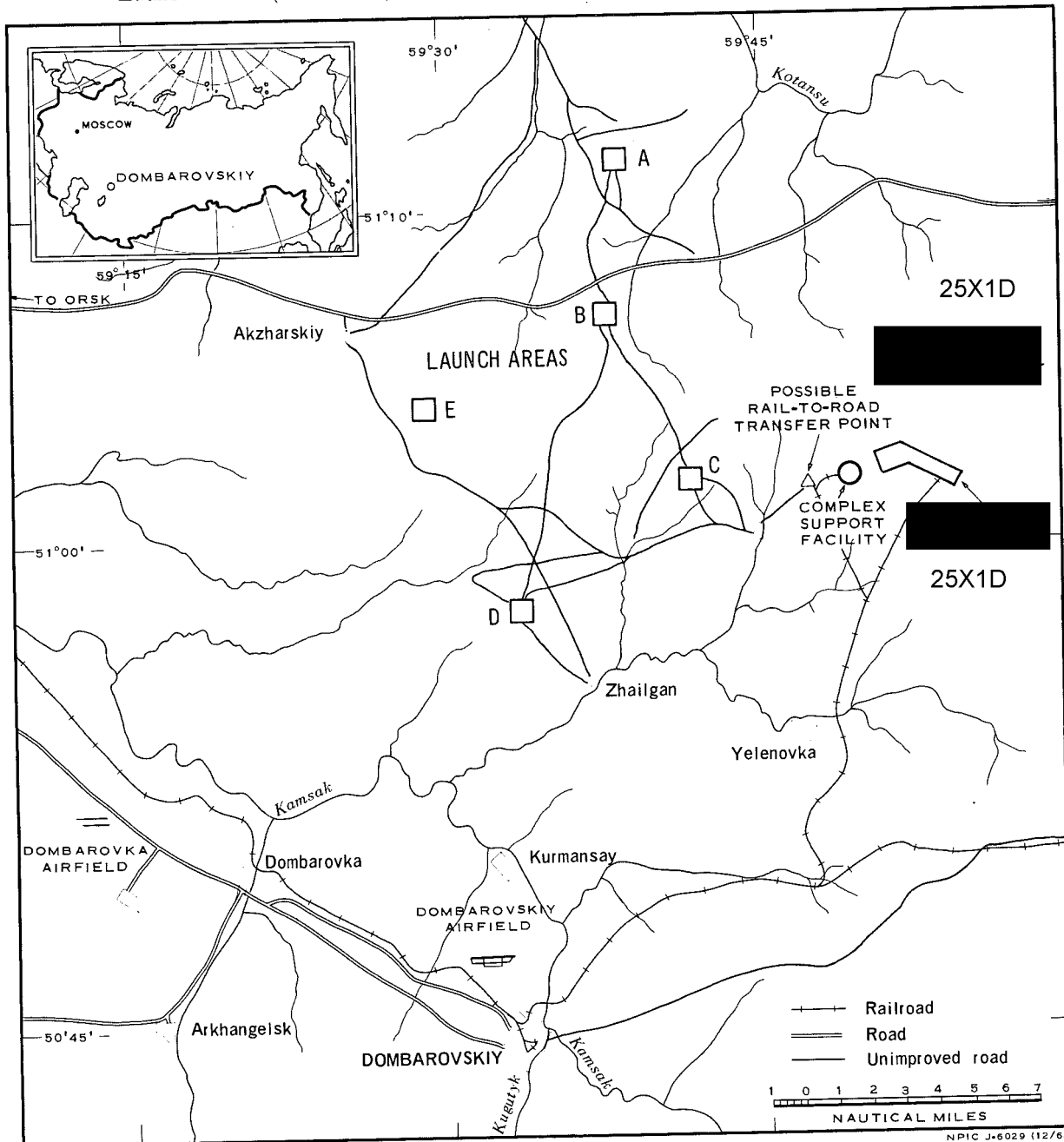
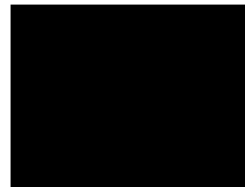


FIGURE 1. LOCATION OF COMPLEX.

NPIC J-6029 (12/64)

Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

Handle Via

TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64

## ICBM COMPLEX, DOMBAROVSKIY, USSR

### INTRODUCTION

The Dombarovskiy ICBM Complex is located approximately 20 nautical miles (nm) northeast of the town of Dombarovskiy and 47 nm east-southeast of the city of Orsk, in the Southern Urals region of the USSR. It is situated on flat-to-gently rolling terrain which is generally devoid of extensive stands of forested or wooded areas. Although agriculture is in evidence, the locale appears to be poor in this respect and has large areas of unused barren land.

The complex (Figure 1) consists of a complex support facility under construction; a possible rail-to-road transfer point; and 5 launch areas, each containing a single-silo launch site under construction. An unidentified facility, which predates the complex, is east of the complex support facility and an area of unidentified construction activity is located approximately 9 nm east-northeast. There was no evidence of the complex in [REDACTED] and the first evidence of construction activity was observed in [REDACTED]. No surface-to-air missile (SAM) defenses have been identified in the vicinity of the complex.

Construction procedures at Soviet single-silo ICBM complexes are different from those observed at previously deployed complexes. Formerly, a complex support facility and a complex main road were brought to a fairly advanced stage of construction before work was started on the launch areas. At the single-silo complexes work is started on the launch areas at the same time that construction of the complex support facility is initiated. No complex main road is evident, as such, although

this feature may be added as the complex becomes more advanced. Instead, advantage is taken of existing roads and, where lacking, it appears that equipment and vehicles are taken across the terrain without special road improvement effort.

Construction techniques at each launch site appear to be very similar. A square excavation is the first step in silo construction, followed by a silo coring in the approximate center of the excavation. Spoil from these diggings is arranged in a neat flat-topped rectangular mound on one side of the excavation, and a smaller flat-topped square mound on the opposite side. At the Dombarovskiy Complex the rectangle is, in each instance, on the west side of the excavation and the square on the east side. At another single-silo complex, Aleysk, the tops of these earth mounds appear to have been surfaced with concrete, suggesting that the earth mounding provides a hardstand at a specific level, probably to facilitate future missile handling and servicing. No evidence of construction under the earth mounds has been detected.

At each launch area of the Dombarovskiy Complex there is a group of buildings whose function has not been determined. Their placement pattern appears to be specific rather than random and, therefore, they appear to have an operational rather than a support aspect. The silos and associated buildings have an almost north-south alignment at Launch Areas A and B, and a nearly northeast-southwest alignment at Launch Areas C and D. The silo and associated buildings at Launch Area E are aligned north-northwest and south-southeast; an approximate

Handle Via  
TALENT-KEYHOLE  
Control System Only

25X1D

Approved For Release 2000/06/14 : CIA-RDP78B04560A004300010019-1

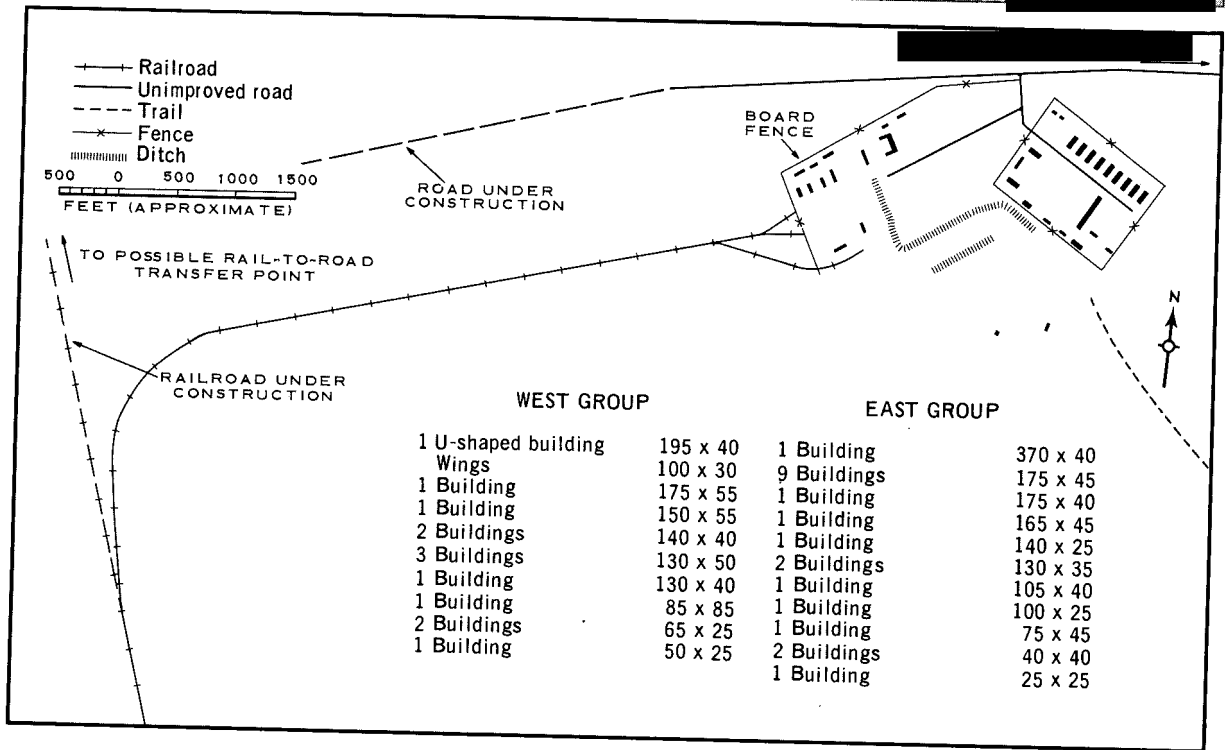
Approved For Release 2000/06/14 : CIA-RDP78B04560A004300010019-1

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64



25X1D



25X1D

FIGURE 3. COMPLEX SUPPORT FACILITY.

NPIC J-8211 (12/64)

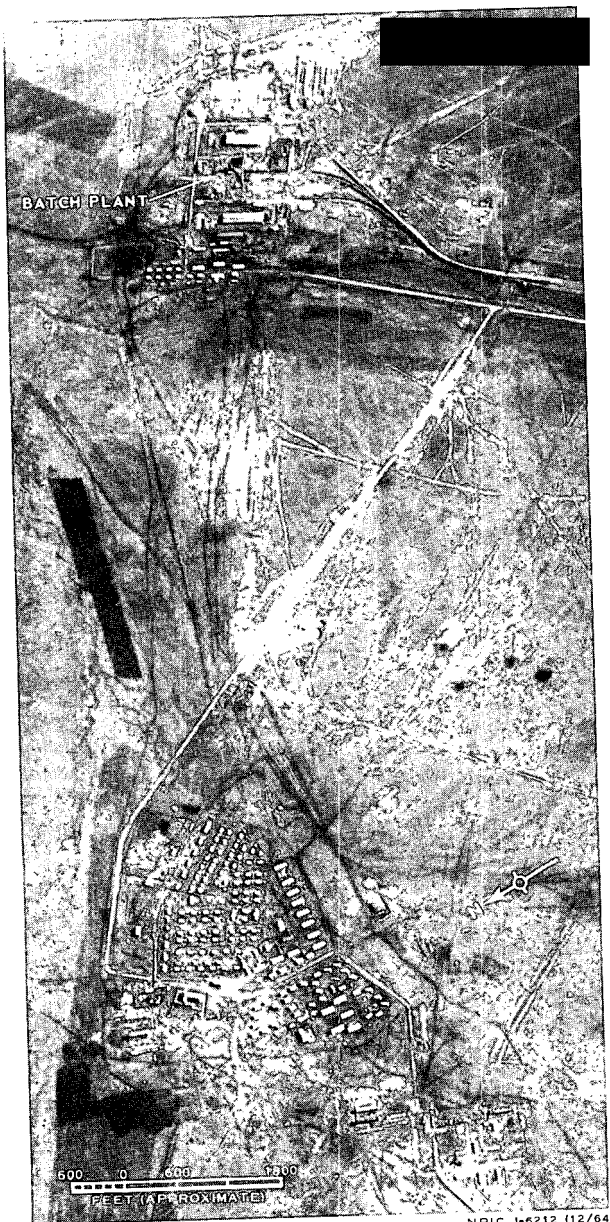
Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64

25X1D



25X1B FIGURE 4. [REDACTED]

extension of their axis intercepts the launch site at Launch Area D, which suggests that Launch Areas C, D, and E are deployed as a unit of three. If this supposition is valid, the silo and associated buildings of a sixth launch area would intercept the launch site at either Launch Area A

or B and form a second unit of three. An electronic facility has not been identified at the Dombarovski Complex, but a good candidate is suggested by the large curious fence configuration at Launch Area B--similar to that at Launch Complex I at the Tyuratam Missile Test Center -- and the presence of an excavation on the east side of the silo. The orientation and distances between individual launch areas, and the fence configuration at Launch Area B, are shown in Figure 2.

### COMPLEX SUPPORT FACILITY

The complex support facility (51-02N 59-49E) is located approximately 20 nm northeast of the town of Dombarovski. There was no evidence of the facility in [REDACTED]

25X1D  
25X1D

[REDACTED] although a survey line for the rail spur was present at that time. The first evidence of construction activity was observed in [REDACTED]

25X1D

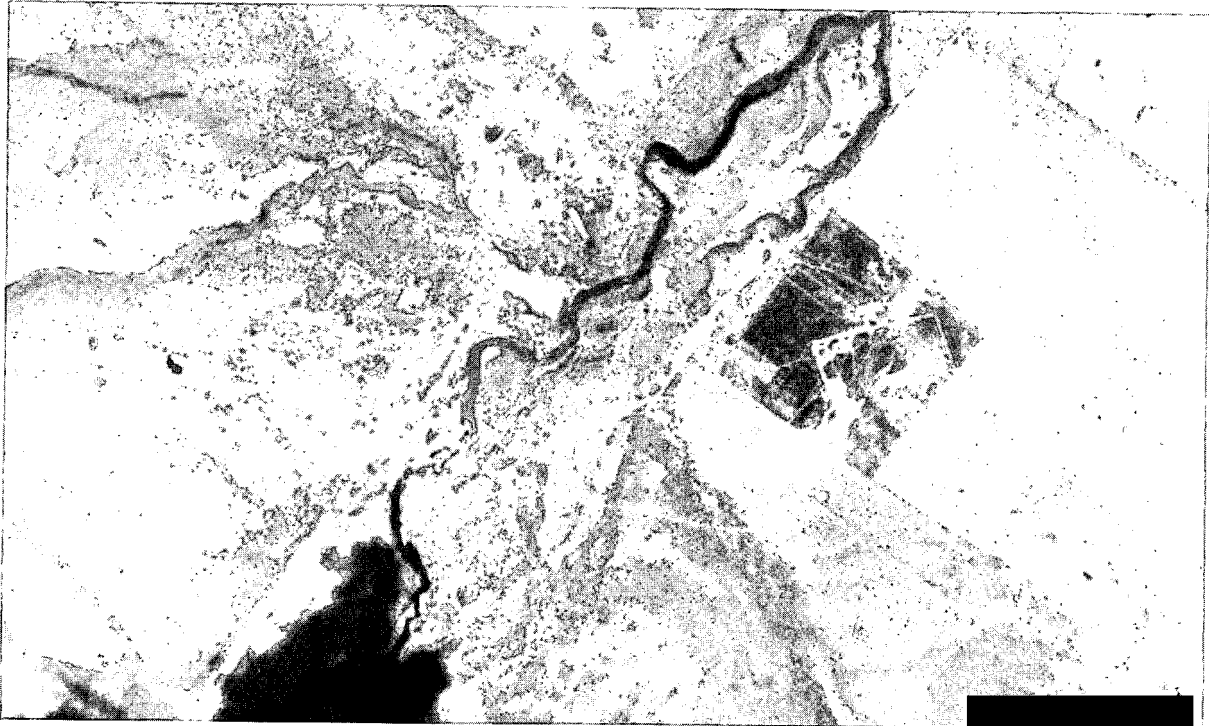
The complex support facility (Figure 3), served by a spur from the branch rail line serving the unidentified facility approximately 2 nm to the east, consists of 2 groups of buildings. The rail spur enters the western group of 13 buildings which appear to be shops and warehouses; a board fence has been identified on the west and north sides. The eastern group is enclosed by a security fence and contains 21 buildings which appear to be barracks and warehouse types. An east-west road, which is under construction, passes the 2 groups of buildings on the north. The road starts at the unidentified facility to the east, and currently terminates at a point approximately 5,600 feet west of the complex support facility. A short rail spur, which may serve the possible rail-to-road transfer point, is under construction northward from the main spur serving the complex support facility.

Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64



25X1D

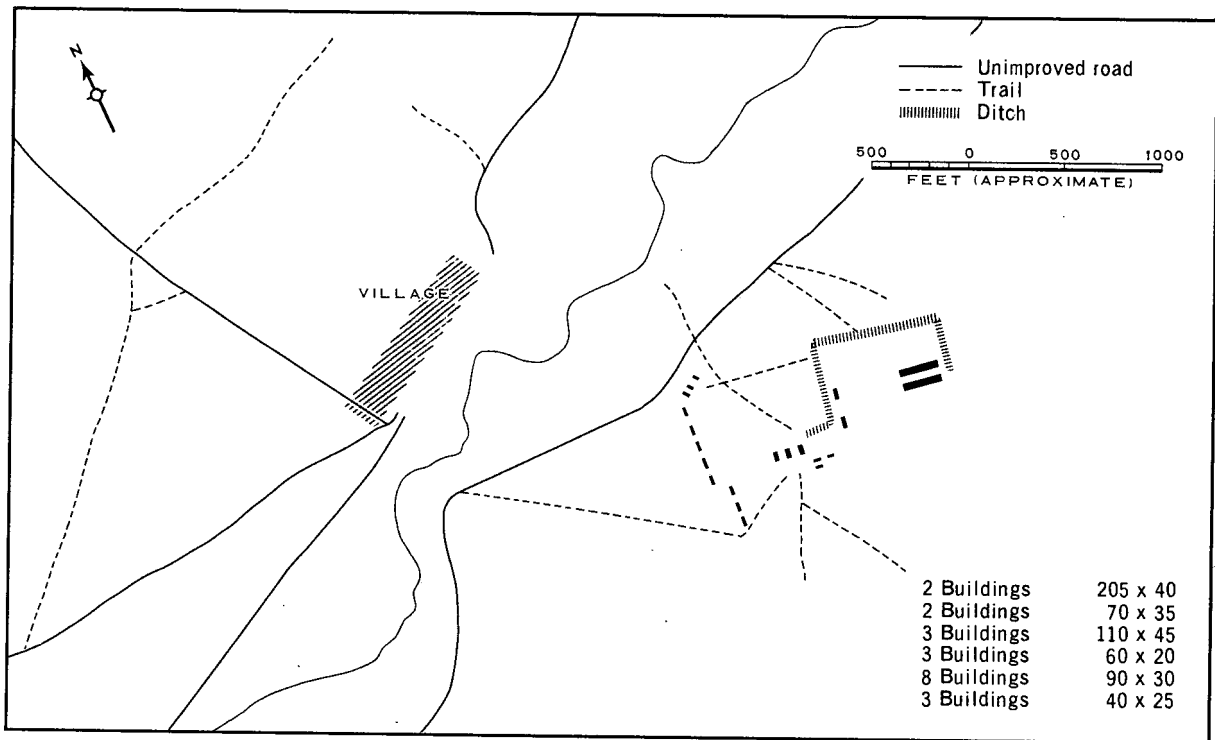


FIGURE 5. [REDACTED]

NPIC J-6213 (12/64)

25X1D

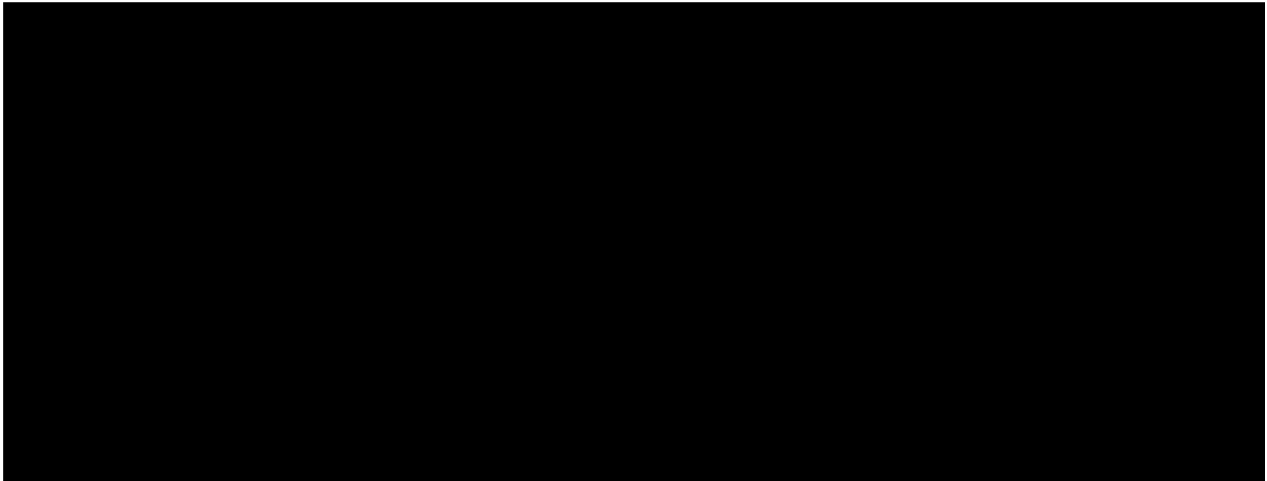
Handle Via  
TALENT-KEYHOLE  
Control System Only



TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only  
25X1B

TCS-10648/64  
NPIC/R-5111/64



AREA OF UNIDENTIFIED CONSTRUCTION ACTIVITY

The area of unidentified construction activity (51-04N 60-03E) is located approximately 9 nm east-northeast of the complex support facility (Figure 5). There was no evidence of con-



were present. [redacted] the number of buildings had been increased to 21. Ditching connects some of the buildings. There appears to be no direct association with elements of the ICBM complex, other than concurrence of construction.

25X1D

25X1D

LAUNCH AREA A

Launch Area A is located 11.8 nm northwest of the complex support facility. There was no evidence of the launch area in [redacted], and first construction activity was observed in [redacted]. The launch area (Figure 6) contains a single-silo launch site in a midstage of construction. The site is enclosed by a security fence 1,150 by 900 feet, forming a rectangle whose short axis is oriented generally north and south. The silo is a circular configuration approximately 25 feet in diameter, and is in the center of an excavation approximately 120 by 105 feet. The silo has not yet been brought up to ground level. The excavation is at the base of a slope, so that one side is shallower than the other. Spoil from the excavation has been piled in a neat flat-

25X1D

25X1D

25X1D

topped rectangle on the east side of the excavation, and a rectangular graded area with a circular ground scar 145 feet in diameter is adjacent to the excavation on its west side. A small building lies near the excavation, on its southeast side.

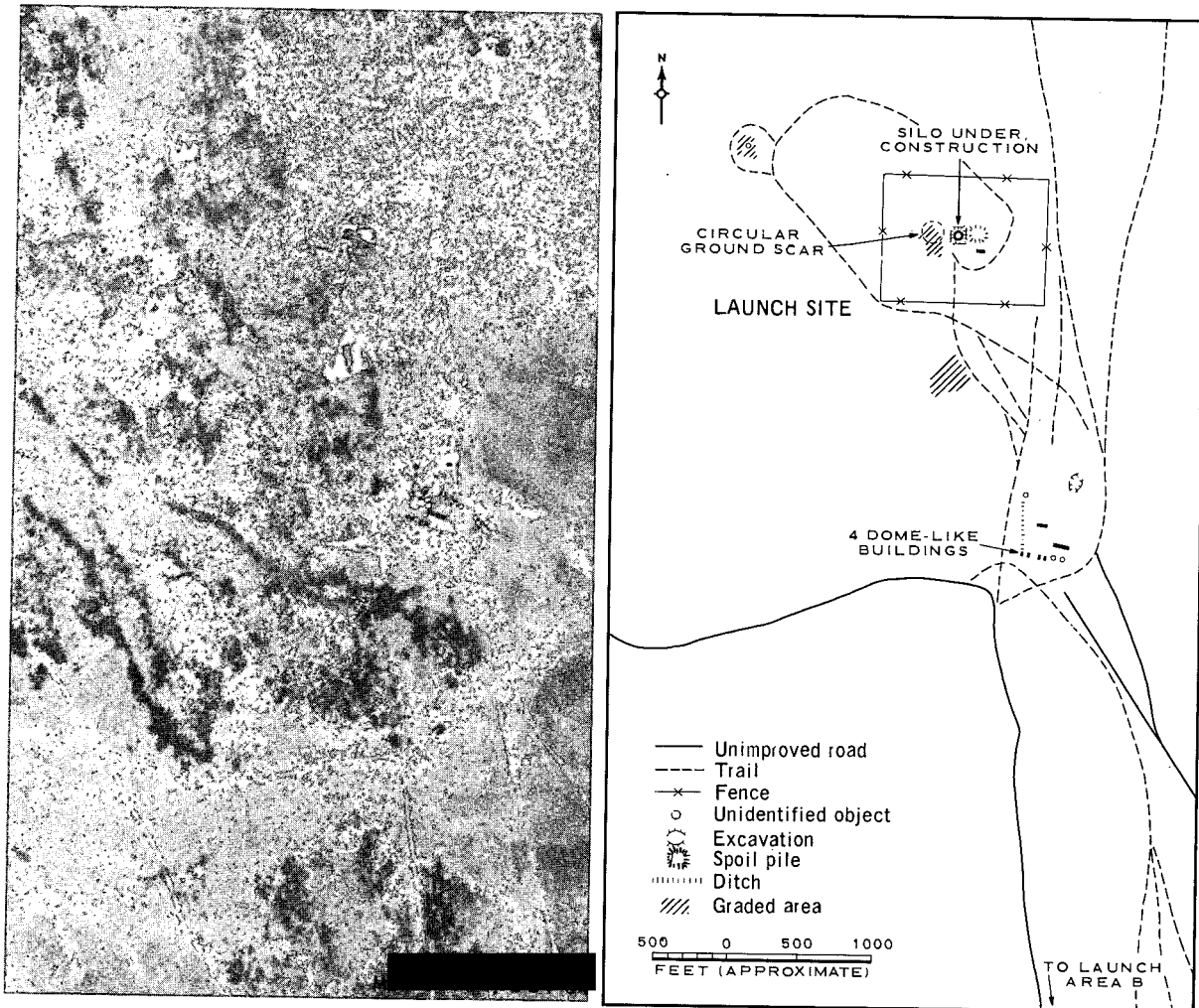
An unidentified object is in the center of a small graded area 1,700 feet west-northwest of the silo, and another graded area lies 1,000 feet to the south. Approximately 2,400 feet southeast of the silo there is a group of 6 buildings, 4 of which may be domed. The 4 dome-like buildings are in a line, spaced in groups of 2. A ditch extends from the west end of the line of buildings northward to an unidentified object. At the east end of the line of buildings there are 2 unidentified objects with approximately the

Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64



<b>LAUNCH SITE</b>		<b>25X1D</b>	
1 Building		75 x 45	1 Building
1 Spoil pile		90 x 70	1 Building
1 Circular ground scar		145' Diam	4 Buildings
			160 x 40
			110 x 25
			35 x 30

FIGURE 6. LAUNCH AREA A.

NPIC J-6214 (12/64)

same spacing as the possibly domed buildings. Ground scarring and an excavation in the vicini-

ty of these buildings suggest additional construction activity.

**LAUNCH AREA B**

25X1D Launch Area B is located 8.7 nm west-north-west of the complex support facility. There was no evidence of the launch area in [REDACTED]

25X1D [REDACTED], and first construction activity was observed in [REDACTED]. The launch area (Figure 7) contains a single-

25X1D

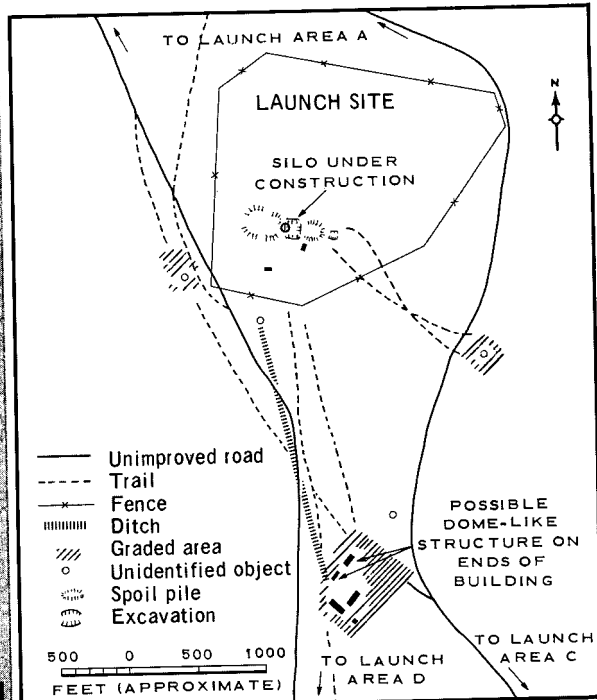
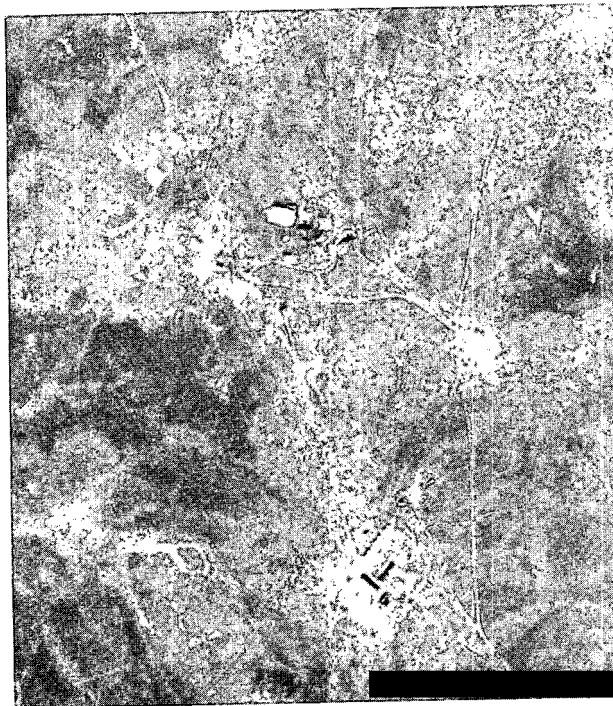
Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

TOP SECRET RUSS

Handle Via  
TALENT-KEYHOLE  
Control System Only

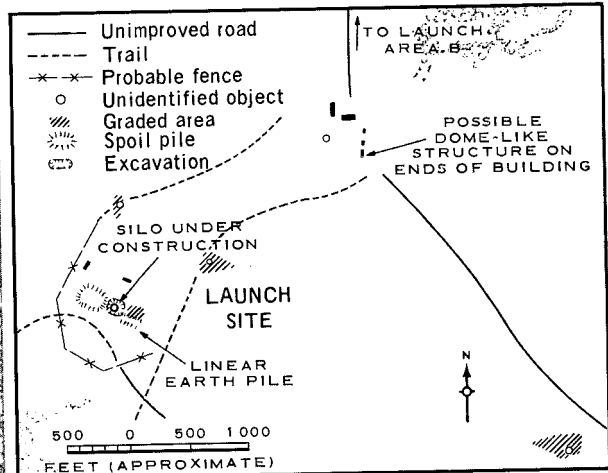
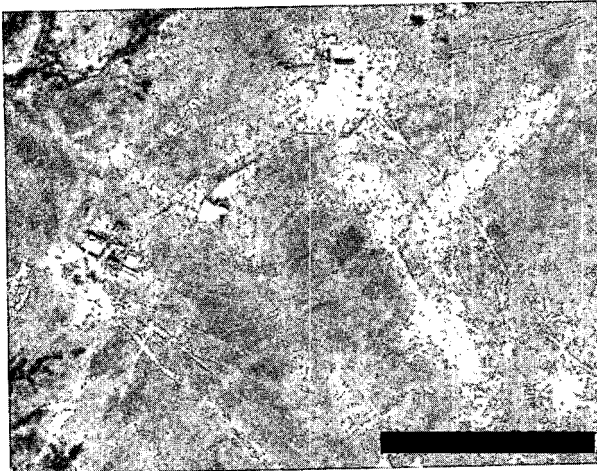
TCS-10648/64  
NPIC/R-5111/64



LAUNCH SITE		25X1D					
1 Spoil pile	200 x 105	1 Building	70 x 15	1 Building	180 x 45	2 Buildings	90 x 25
1 Spoil pile	110 x 95	1 Building	75 x 15	1 Building	160 x 30	1 Building	45 x 45

NPIC J-6215 (12/64)

FIGURE 7. LAUNCH AREA B.



LAUNCH SITE		25X1D					
1 Spoil Pile	200 x 140	1 Building	90 x 25	1 Building	165 x 60	1 Building	125 x 25
1 Building	90 x 25	1 Building	55 x 50	1 Building	90 x 25	2 Buildings	30 x 25
1 Building				2 Buildings			

NPIC J-6216 (12/64)

FIGURE 8. LAUNCH AREA C.

Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUSS

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64

silos launch site in a midstage of construction. The site is enclosed by an irregularly shaped security fence whose configuration is reminiscent of the security fence at Launch Complex I at the Tyuratam Missile Test Center, and is large enough to accommodate an electronic facility of the type at Launch Complex I. The silo is a circular configuration approximately 35 feet in diameter, in the center of an excavation approximately 120 by 110 feet. Spoil from the excavation has been piled in a neat flat-topped rectangle on the west side of the excavation, and in a neat flat-topped square on the east side.

Two buildings lie near the excavation, on its south side.

An unidentified object is in the center of a small graded area 1,800 feet east-southeast of the silo, and a second unidentified object is in a graded area 800 feet southwest of the silo. Approximately 2,550 feet south of the silo, there is a group of 5 buildings. Two of these, which have their long axis on a common line, appear to be dome-like at each end. A ditch extends from the south end of these buildings north-northwestward to an unidentified object.

25X1D

#### LAUNCH AREA C

Launch Area C is located 4.1 nm west of the complex support facility. There was no evidence of the launch area in [REDACTED]

of the excavation. Two buildings are near the excavation, on its north side.

25X1D

25X1D

[REDACTED] and first construction activity was observed [REDACTED] later in [REDACTED]

25X1D

25X1D

[REDACTED] The launch area (Figure 8) contains a single-silo launch site in a midstage of construction. Probable security fencing can be observed on the south and west sides of the site. The silo is a circular configuration approximately 30 feet in diameter, in the center of an excavation approximately 120 by 115 feet. Spoil from the excavation has been piled in a rectangular shape on the west side of the excavation; a square graded area, with a linear pile of earth along its south side, is adjacent to the east side

An unidentified object is located in a graded area 950 feet northeast of the silo, and another unidentified object is in a graded area 4,300 feet east-southeast of the silo. Approximately 2,500 feet north-northeast of the silo there is a group of 5 buildings or structures. Three of these have their long axes on a common line; the largest of the 3 appears to be dome-like at each end, and the other 2 appear to be low and square. The latter are probably an earlier construction stage of the largest building which, when completed, will be similar or identical to the buildings with the dome-like features associated with Launch Area B.

#### LAUNCH AREA D

Launch Area D is located 11 nm west-southwest of the complex support facility. There was no evidence of the launch area in [REDACTED]

single-silo launch site in a midstage of construction. High board fences, approximately 600 feet in length, and aligned in an east-west direction, are located on the north and south sides of the launch site. The silo is a circular configuration in the center of an excavation approximately 120

25X1D

25X1D

25X1D

25X1D

[REDACTED] and first construction activity was observed [REDACTED] later in [REDACTED]

[REDACTED] The launch area (Figure 9) contains a

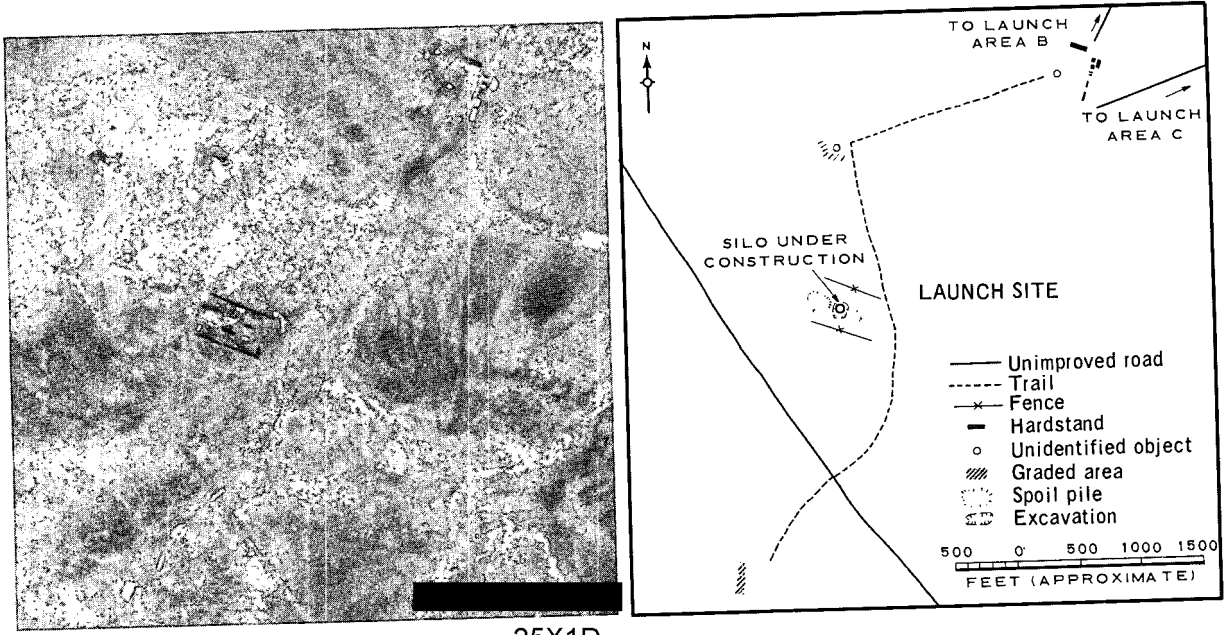
25X1D

Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

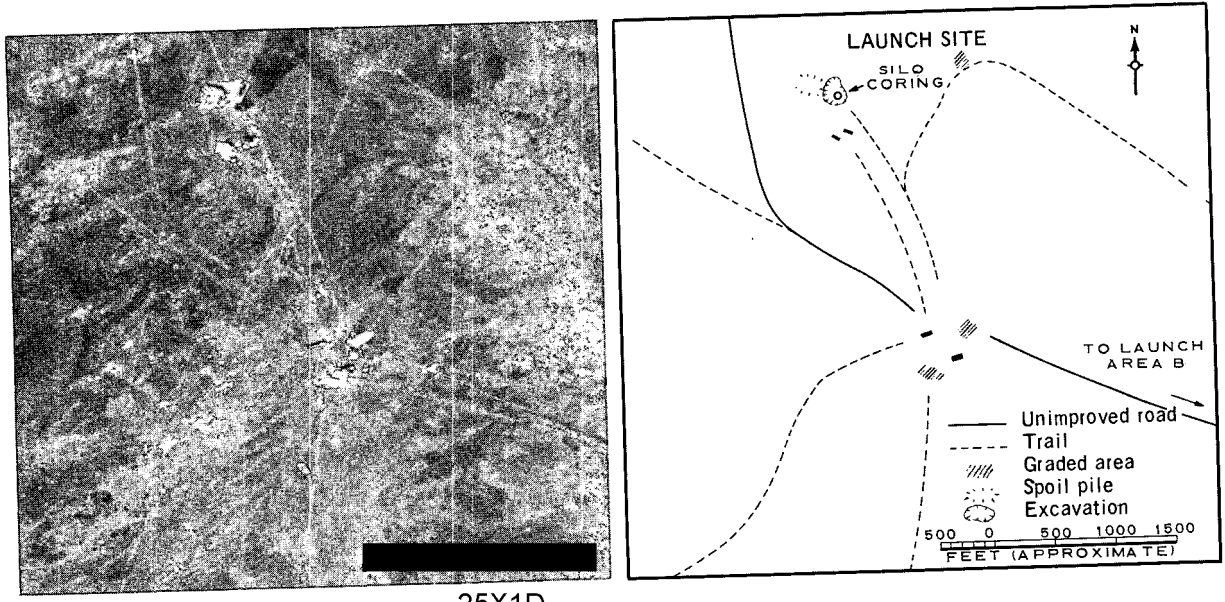
TCS-10648/64  
NPIC/R-5111/64



LAUNCH SITE		25X1D			
1 Spoil pile	215 x 115	1 Building	175 x 45	1 Building	55 x 25
1 Spoil pile	90 x 90	1 Building	85 x 25	2 Buildings	35 x 20

NPIC J-6217 (12/64)

FIGURE 9. LAUNCH AREA D.



LAUNCH SITE		25X1D			
1 Spoil pile	200 x 150	1 Building	140 x 20		
1 Building	80 x 45	1 Building	90 x 15		
1 Building	60 x 30				

NPIC J-6218 (12/64)

FIGURE 10. LAUNCH AREA E.

Handle Via  
TALENT-KEYHOLE  
Control System Only

TOP SECRET RUFF

Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64

by 105 feet. The silo has not yet been brought up to ground level, and cannot be measured because of photo limitations. Spoil from the excavation has been piled in a neat flat-topped rectangle on the west side of the excavation, and a neat flat-topped square on the east side. A small graded area is located 2,200 feet south-southwest of the silo, and a graded area with an unidentified object in it is located 1,300 feet north-northwest

of the silo.

Approximately 2,800 feet north-northeast of the silo there is a group of 7 buildings. Six are arranged in a straight line, and, although they are reminiscent of the buildings with dome-like features observed at Launch Areas A, B, and C, the dome-like appearance cannot be detected at this group.

LAUNCH AREA E

Launch Area E is located 12.6 nm west-northwest of the complex support facility. There was no evidence of the launch area in [redacted] and first construction activity was observed in [redacted]. The launch area (Figure 10) contains a single-silo launch site in an early stage of construction. No security fencing has been identified. A silo coring is in a shallow excavation, and spoil from the excavation has been piled in

a flat-topped rectangle on the west side of the excavation. Two small buildings are near the excavation on its southeast side.

A small area has been graded 1,100 feet east-northeast of the silo coring. Approximately 2,200 feet southeast of the excavation there is an area of construction activity. There are 2 buildings in this vicinity, and grading and ground scarring indicate future construction.

25X1D  
25X1D  
25X1D  
25X1D



Handle Via  
TALENT-KEYHOLE  
Control System Only

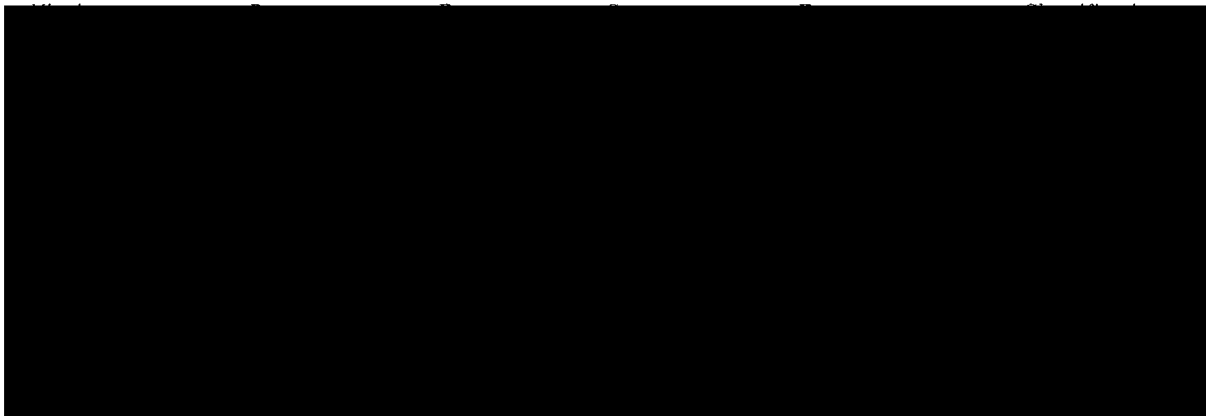
Handle Via  
TALENT-KEYHOLE  
Control System Only

TCS-10648/64  
NPIC/R-5111/64

REFERENCES

PHOTOGRAPHY

25X1D



MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0236-10HL, 3d ed, Nov 62, scale 1:200,000 (SECRET)

REQUIREMENT

GMAIC 21-64

NPIC PROJECT

11732/64

Handle Via  
TALENT-KEYHOLE  
Control System Only

~~TOP SECRET~~



~~TOP SECRET~~