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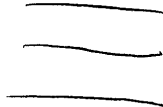


basic imagery interpretation report

Soviet Mobile Missile Summary



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DEPLOYED STRATEGIC SSM FACILITIES
BE: VARIOUS
USSR

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Soviet Mobile Missile Summary

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List of Acronyms and Abbreviations

AAD	Azimuth Alignment Device
C3	Command, Control, and Communications
APC	Armored Personnel Carrier
can/cap	canister/capsule
CPLX	Complex
CP/BNK	Command Post/Bunker
CSF	Complex Support Facilities
CTA	Crew Training Areas
DIV	Division
FTA	Field Training Area
GSA	General Support Area
GSE	Ground Support Equipment
HP/TD	Hardpoint/Tiedown
ICBM	Intercontinental Ballistic Missile
IRBM	Intermediate-Range Ballistic Missile
km	kilometer(s)
LAD	Launch Assist Device
LP	Launch Position
LRP	Launch Reference Position
LTS	Launch Test Site
MHF	Missile Handling Facility
MOB	Mobile Missile Base
MRACA	Missile Receiving and Checkout Area
MRB	Missile-Ready Building/Bunker
MRBM	Medium-Range Ballistic Missile
MSE	Missile Support Equipment
MSRD	Missile Support Rear Depot
MSTC	Missile/Space Test Center
MSV	Missile Support Van
MTC	Missile Test Center
nm	nautical mile
NPHF	Nuclear Payload Handling Facility
NPIC	National Photographic Interpretation Center
NWHF	Nuclear Warhead Handling Facility
PBV	Postboost Vehicle
PGCS	Propulsion Guidance Control Section
PHF	Payload Handling Facility
POE	Piece(s) of Equipment
RCVR	Receiver
REGT	Regimental
R&D	Research and Development
RIC	Receiving, Inspection, and Checkout
RIM	Receiving, Inspection, and Maintenance
RISA	Receiving/Inspection/Storage Area
RTP	Rail-to-Road Transfer Point
RVT	Revetment
SBG	Single-Bay Garage
SMRA	Silo Materials Receiving Area
SRF	Strategic Rocket Forces
SSM	Surface-to-Surface Missile
TEL	Transporter-Erector-Launcher
TSA	Temporary Support Area
UHF/VHF	Ultra High Frequency/Very High Frequency
XMTR	Transmitter

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SOVIET MOBILE MISSILE SUMMARY

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SUMMARY

1. This report updates information in NPIC report [REDACTED] on SS-20 mobile IRBM bases in the USSR and includes a synopsis of significant mobile missile activity seen at two offensive missile test centers and several C3 facilities (Figure 1). (S/WN) 25X1
2. Significant activity/observations during the reporting period included the following:

Deployed Complexes

	Paragraph(s)	Figure(s)
a. New SS-20 vehicle mockups at Drovyanaya Mobile IRBM Base 1;	6	2
b. Field training exercises at Drovyanaya FTA;	10	
c. SBG components at Kansk Mobile IRBM Base 1;	11	3
d. A second newly identified SS-20 mobile IRBM base under construction at Kansk;	12	4
e. Probable SBG components at Kansk Support Complex;	13	5
f. A second newly identified SS-20 mobile IRBM base under construction at Barnaul;	14	6
g. A newly identified field training area at Novosibirsk;	15	7
h. An SS-20 field training exercise at Novosibirsk;	16	
i. Probable transportable SS-20 vehicle mockups at Verkhnyaya Salda RTP;	19	8
j. Possible missile system checkout/maintenance (open SBG), at Yurya Mobile IRBM Base 3;	20	9
k. Probable calibration/checkout or warhead mating at Yurya NPHF;	21	
l. SS-20-associated equipment at Krolevets Mobile IRBM Base 1;	22	10

Missile Support Rear Depot

m. A newly identified SBG component storage area and an increase in SBG components at Balta MSRD;	23	
n. A [REDACTED] MSV near the RIM building at Glazov MSRD;	24	25X1
o. SBG components ready for shipment from Glazov MSRD;	25	11

Missile Test Centers

p. Field training activity at two CTAs, at a previously abandoned test site at Launch Complex C, and at the Kapustin Yar Bivouac Troop/Training area;	28,29,30,31	12
q. New modification/construction at Complex C, Site 1 at Kapustin Yar;	32	13
r. Construction at Complex C, Sites 2 and 8 at Kapustin Yar;	35	14
s. Construction at Kapustin Yar GSA and at Kapustin Yar RISA;	36,37,38	15,16
t. The continuing pattern of snow clearing associated with the LRP's at Plesetsk;	40	Chart 1

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|----|---|----|----|
| u. | Quonset-garages being dismantled at Plesetsk Mobile 1 and 2; | 41 | 17 |
| v. | Pre- and postlaunch activity at LTS 23, which is associated with a new ICBM at Plesetsk; | 43 | |
| w. | Construction activity in the SS-16/PL-05 RIC at Plesetsk; | 44 | 18 |
| x. | Construction of facilities to support a rail-mobile ICBM at Plesetsk; | 46 | 19 |
| y. | Construction of a new missile receiving and checkout area for an unidentified ICBM at Plesetsk; | 47 | 20 |

Missile-Related R&D and Production Facilities

- | | | | |
|-----|---|-------|-------|
| z. | The production of SBG components at Bryansk; | 48,49 | |
| aa. | A new missile support van variant at Shumerlya Possible Missile Ground Support Equipment Plant; | 50,51 | 21,22 |
| bb. | Probable new type of mobile missile-related vehicle at Volgograd; | 52 | 23 |

Command, Control, and Communications Activity

- | | | | |
|-----|---|----------|------|
| cc. | A new division headquarters under construction at Kansk SS-20 Support Complex and three new regimental headquarters under construction at Kansk and Barnaul; | 53,54,55 | |
| dd. | The continued construction of a previously reported division headquarters at Barnaul SS-20 Support Complex; | 56 | |
| ee. | The completion of a regimental headquarters previously reported under construction at Barnaul Mobile IRBM Base 1; | 57 | |
| ff. | Three type-C satellite communications buildings under construction at mobile missile complexes; | 58 | 24 |
| gg. | A probable MERCURY GRASS antenna on the roof of a headquarters/administration building at Yurya Mobile IRBM Base 2 and at Droyanaya Mobile IRBM Bases 2 and 4; | 59 | 25 |
| hh. | A STICK PIN antenna and the earth mounding of a small support bunker at the Lebedin IRBM Regimental Command Post/Bunker [REDACTED] | 60 | 25X1 |
| ii. | The initial construction of an unidentified building that is trench connected to the Mozyr MRBM Division Command Post/Bunker [REDACTED] | 61 | 25X1 |
| jj. | The functional identification of six previously reported irregularly-shaped buildings at mobile missile facilities and the recent observation of identical probable C-3-related buildings under construction at Barnaul SS-20 Support Complex, Kansk SS-20 Support Complex, and Kozhanovich Mobile IRBM Base; | 62 | 26 |
| kk. | The deactivation of Dyatlovo MRBM Regimental Headquarters Radcom Receiver/Bunker/Hard; | 63 | |
| ll. | The re-establishment of a construction support camp at Lutsk MRBM Regimental Headquarters Radio Communications Receiver/Bunker/Hard; | 64 | |

- mm. An R-400/-404 unit at Yurya Mobile IRBM Base 3; and 65 27
- nn. The appearance of unusual trenching patterns around the new lattice towers at Novosibirsk ICBM Complex Command Post Bunker. (TSR) 66

3. The reporting period extends from One location map, 27 annotated photographs, two tables, and one chart are included in this report. (U) 25X1

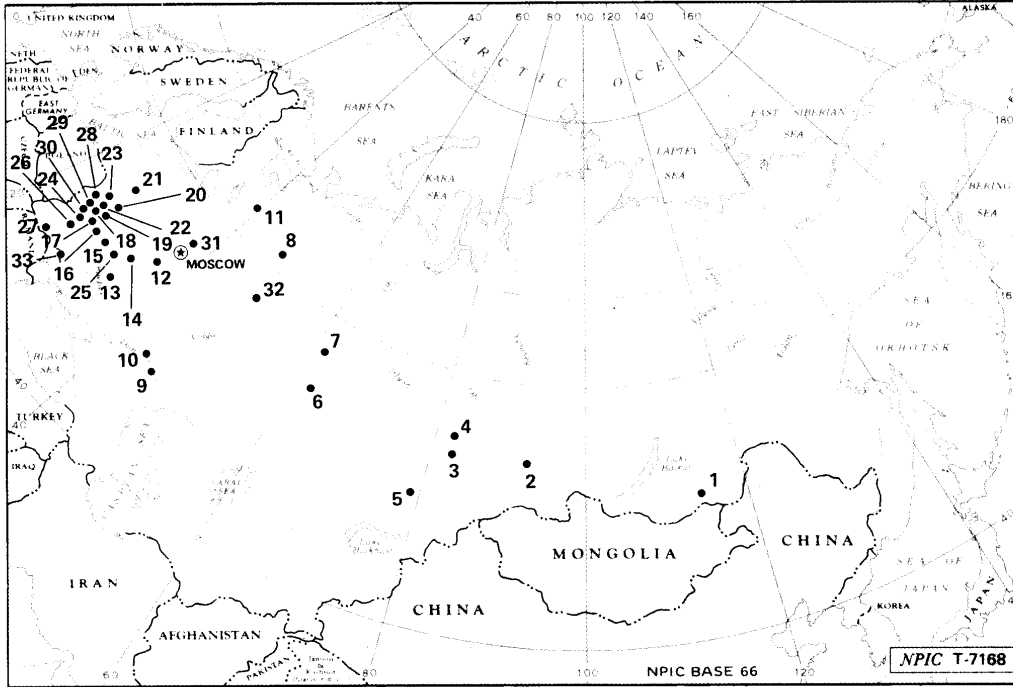


FIGURE 1. LOCATIONS OF SS-16/20 ACTIVITY IN THE USSR

Item	Installation Name	BE No	Item	Installation Name	BE No
1	Drovyanaya Mobile IRBM Base 1		12	Serpukhov SSM Engineering Research Training Facility	
	Drovyanaya Mobile IRBM Base 2		13	Lebedin Mobile IRBM Base 1	
	Drovyanaya Mobile IRBM Base 3		14	Bryansk Guided Missile Support Equipment Plant II	
	Drovyanaya Mobile IRBM Base 4		15	Rechitsa Mobile IRBM Support Base	
	Drovyanaya Mobile IRBM Base 5			Rechitsa Mobile IRBM Base 1A	
	Drovyanaya SS-20 Remote Site 1			Rechitsa Mobile IRBM Base 1B	
2	Kansk Mobile IRBM Base 1			Rechitsa Mobile IRBM Base 1C	
	Kansk Mobile IRBM Base 2		16	Mozyr Mobile IRBM Base	
	Kansk SS-20 Support Complex		17	Konkovichi Mobile IRBM Base	
3	Barnaul Mobile IRBM Base 1		18	Novaya Mezinovka Missile Support Rear Depot	
	Barnaul Mobile IRBM Base 2		19	Gresk Mobile IRBM Base 1	
	Barnaul SS-20 Support Complex		20	Postavy Mobile IRBM Base	
4	Novosibirsk Mobile IRBM Base 1		21	Polotsk Mobile IRBM Base 1	
	Novosibirsk Mobile IRBM Base 2			Polotsk Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 3		22	Minsk Motor Vehicle and Guided Missile Support Plant	
	Novosibirsk Mobile IRBM Base 4		23	Smorgon Mobile IRBM Base 1	
	Novosibirsk Mobile IRBM Base 5			Smorgon Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 6		24	Kozhanovichi Mobile IRBM Base	
5	Semipalatinsk NWPG		25	Krolevets Mobile IRBM Base 1	
6	Bobrovskiy Missile Support Rear Depot		26	Kivertsy Mobile IRBM Base 2	
7	Verkhnyaya Salda Mobile IRBM Base 1				
	Verkhnyaya Salda Mobile IRBM Base 2		27	Lutsk Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 3		28	Lida Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 4		29	Dyatlovo Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 5			Dyatlovo Payload Handling Facility	
8	Yurya Mobile IRBM Base 1		30	Slonim Mobile IRBM Base 1	
	Yurya Mobile IRBM Base 2		31	Krasnoarmeysk Solid Motor Development Facility	
	Yurya Mobile IRBM Base 3		32	Glazov Missile Support Rear Depot	
	Yurya Mobile IRBM Base 4		33	Balta Missile Support Rear Depot	
	Yurya Mobile IRBM Base 5				
9	Kapustin Yar Missile/Space Test Center SSM				
10	Volgograd Steel and Machinery Plant Krasnyy Barricada 221				
11	Plesetsk Missile/Space Test Center SSM				

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The combination of the above figure and list is classified TOP SECRET RUFF

DISCUSSION

Deployed Complexes

4. As of [redacted] 39 of the 42 mobile bases were in the late stages of construction or complete and were assessed to be capable of maintaining an operational unit (Table 1). Based on past construction practices, the 42 bases and the remote site at Drovyanaya will contain 381 SBGs to house SS-20 missiles on launchers. Five of the bases are in the eastern section of Siberia, ten are in the western section of Siberia, ten are in the central USSR, and 17 are in the western section of the USSR. (S/WN) 25X1

5. Throughout the reporting period, SS-20-associated vehicles/equipment were observed in or near the operations areas at Drovyanaya SSM Complex [redacted] Novosibirsk SSM Complex [redacted] 25X1
[redacted] Verkhnyaya Salda SSM Complex [redacted] Yurya SSM Complex [redacted] Barnaul 25X1
Mobile IRBM Base 1, Kansk Mobile IRBM Base 1 and 2, and Krolevets Mobile IRBM Base 1. (S/WN)

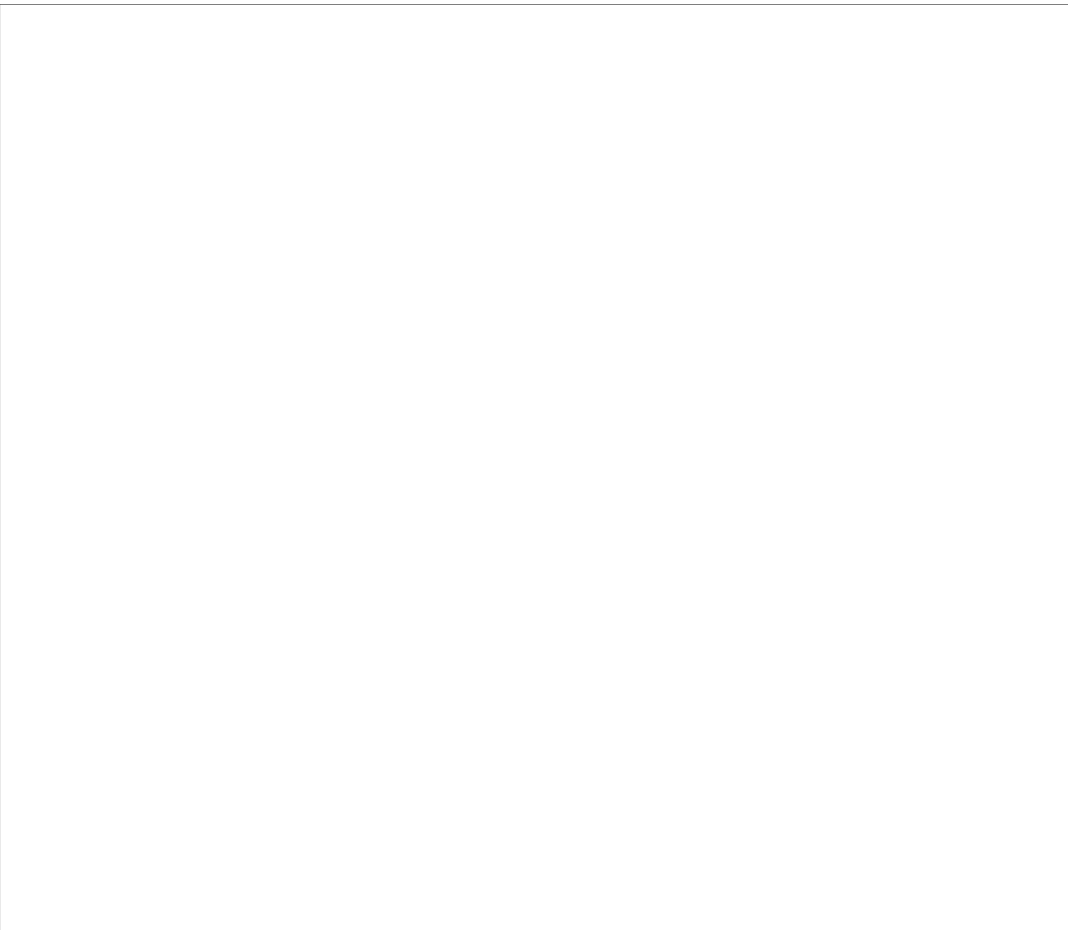
Eastern Siberia

6. Drovyanaya Mobile IRBM Base 1. On [redacted] one MSV and one BTR-60/70 APC were in front of an MRB, and a second MSV was in front of a three-bay garage in the operations area. Several small miscellaneous support vehicles were also present. On [redacted] five camouflaged SS-20 vehicle mockups were in the support area on the northwest edge of the running track (Figure 2). The mockups had been under construction since at least [redacted] and are probably for camouflage training. (S/WN) 25X1
25X1
25X1

7. Drovyanaya Mobile IRBM Base 2. On [redacted], one SS-20 TEL with probable canister was on a road, approximately 2.5 nm north-northwest of the mobile base. (S/WN) 25X1

8. Drovyanaya Mobile IRBM Base 3. On [redacted] an SS-20 TEL with a probable training canister was on the road leading to the mobile base, and on [redacted] an SS-20 TEL with canister was next to an administration/shop building in the vehicle maintenance/storage area. (S/WN) 25X1
25X1

9. Drovyanaya SSM RTP [redacted], On [redacted] 25X1
[redacted] Three Type I warhead transporters (one without a truck chassis), one crane, one cargo truck, and one van-bodied truck were near the high two-bay building. 25X1
One of the warhead transporters had its tray extended and two canvas-covered probable warhead canisters were on the tray. Additionally, two camouflaged probable MSVs and one piece of canvas were near one of the 11-bay garages. A similar operation was observed at this facility in September 1982 and in early March 1983. (S/WN)



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Table 1. Summary of SS-20 Construction at Deployed Areas

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SSM Installation Name	First Identified	Date Assessed as Being Operational	Date Last Imaged	OPERATIONS AREA										Status of Construction at RTP	Remarks/Comments		
				Single-Bay Garage		3-Bay Garage		4-Bay Garage		5-Bay Garage		11-Bay Garage					
				Comp	Ucon	Comp	Ucon	Comp	Ucon	Comp	Ucon	Comp	Ucon				
Divovalaya Mobile IRBM Base 1	Jul 76	Dec 77		9	3									1		A elementary bldg nearly complete	5 stationary SS-20 mockups adj to athletic fld
Divovalaya Mobile IRBM Base 2	Jan 77	Jun 78		9	3									0			3 stationary SS-20 mockups near the spt area
Divovalaya Mobile IRBM Base 3	Nov 77	Dec 78		9	3									0			Stationary SS-20 mockups 0.5 nm south of MDB
Divovalaya Mobile IRBM Base 4	Nov 78	Nov 81		9				3						0			3 SS-11 canisters being buried in spt area
Divovalaya Mobile IRBM Base 5	Apr 79	Mar 80		9	3									0			
Divovalaya Remote Site 1	Aug 79			3													
Banau Mobile IRBM Base 1	May 82	Feb 83		9										3			Ground scraping for 3 SSG SSG in ops area
Banau Mobile IRBM Base 2	Mar 83				2									3			
Kansk Mobile IRBM Base 1	Sep 82				9									3			
Kansk Mobile IRBM Base 2	Mar 83				3									3			
Novosibirsk Mobile IRBM Base 1	Jan 77	Jun 78		9				3						0			Approximately 11 support bldgs ucon in spt area the 3 five-bay garages nearly complete
Novosibirsk Mobile IRBM Base 2	Dec 77	Nov 78		9				3						0			No visible security fencing around the ops area; foundations for 5 bldgs in spt area
Novosibirsk Mobile IRBM Base 3	Jun 78	Nov 79		9				3						0			C-shaped bldg ucon
Novosibirsk Mobile IRBM Base 4	Dec 78	Dec 80		9				3						0			1 bldg in late stage of const in spt area
Novosibirsk Mobile IRBM Base 5	Oct 80	Aug 81		9				3						0			
Novosibirsk Mobile IRBM Base 6	Dec 81	Dec 82		9				3						0			
Verkhnyaya Salda Mobile IRBM Base 1	Feb 78	Jan 79		9	3									0			Footings for 1 bldg ucon in spt area; SS-20 stationary mockups between ops and spt areas
Verkhnyaya Salda Mobile IRBM Base 2	Jan 79	Nov 79		9	3									0			4 of the 5 mockups near dismantled SS-7 also removed
Verkhnyaya Salda Mobile IRBM Base 3	Nov 79	Dec 80		9	3									0			SS-20 stationary mockups in ops area
Verkhnyaya Salda Mobile IRBM Base 4	Mar 80	Dec 80		9	3									0			SS-20 stationary mockups at the south edge of ops area
Verkhnyaya Salda Mobile IRBM Base 5	Apr 81	Nov 81		9	3									0			SS-20 stationary mockups in spt area; numerous unid objects near gate and unseeing exit in veh transition area
Yurya Mobile IRBM Base 1	Apr 78	Jan 79		9	3									0			Three SS-20 stationary mockups ucon in spt area
Yurya Mobile IRBM Base 2	Jan 79	Jan 80		9	3									0			SS-20 stationary mockups near the athletic field
Yurya Mobile IRBM Base 3	Dec 79	Dec 80		9	3									0			SS-20 stationary mockups adjacent C3 area
Yurya Mobile IRBM Base 4	May 80	Mar 81		9	3									0			
Yurya Mobile IRBM Base 5	Apr 81	Dec 81		9	3									0			
Kuznetsk Mobile IRBM Base	Nov 76	Jun 78		9	3									1			Expansion of RTP complete
Konstantinovsk Mobile IRBM Base	Jul 76	Jun 78		9	3									1			Former SS-4 RTP has not been expanded
Kolpenevsk Mobile IRBM Base	Dec 81	Aug 82		9				3						0			SS-20 TEL with canister mockup in spt area in wooded area near the C-shaped C3 bldg
Mozyr Mobile IRBM Base Training Facility	Oct 76	Jun 78		9	3									0			Exhibition of RTP
Polotsk Mobile IRBM Base 1	Apr 78	Jan 79		9				3						0			10m angle bay garage adj to elementary bldg; a large C-shaped bldg; a multi-story dormitory; and 4 3rd large bldg in very late stage const in spt area; SS-20 stationary mockups in spt area
Polotsk Mobile IRBM Base 2	Aug 79	Jan 81		9				3						0			Foundations for 2 bldg in spt area
Rechitsa Mobile IRBM Support Base	Sep 78	Mar 80		9				3						0			6 bay garage ucon in ops area; MSV stationary mockup in spt area
Rechitsa Mobile IRBM Base 1A	Aug 79	Mar 80		3										0			
Rechitsa Mobile IRBM Base 1B	Aug 79	Mar 80		3										0			NWSF ucon; 2 bldgs ucon in spt area
Rechitsa Mobile IRBM Base 1C	Aug 79	Mar 80		3										0			
Polotsk Mobile IRBM Base 1	Oct 78	Jan 80		9	3									0			Expansion of RTP complete
Polotsk Mobile IRBM Base 2	Aug 79	Jan 81		9	3									0			SS-20 stationary mockups in former SS-4 NWHF
Lida Mobile IRBM Base 1	Jun 80	May 81		9				3						0			No RTP associated when SS-4 or now as SS-20 Base
Gorsk Mobile IRBM Base 1	Aug 80	May 81		9				3						0			Veh maint shed in late stage of const in spt area
Lutsk Mobile IRBM Base 1	Jan 81	Jun 82		9				3						0			SS-20 mockups in ops area; 1 bldg in early stage const in spt area
Kievsk Mobile IRBM Base 2	Nov 81	Feb 83		9				3						0			Conduit connecting high two-bay bldg and technical spt bldg is ucon and elementary bldg is in the late stage const in NPHF
Lutsk Mobile IRBM Base 1	Feb 81	Mar 82		9				3						0			SS-20 Base
Dyatovo Mobile IRBM Base 1	Mar 81	Jan 82		9	0			3						0			No RTP associated when SS-4 or now as SS-20 Base
Slonim Mobile IRBM Base 1	Mar 82	Mar 82		9	0			3						0			Expansion of RTP complete
				9	0			3						0			RTP associated when SS-4
				9	0			3						0			Scratch built RTP ucon

* Red indicates changes since the last size of the updated report.
 * The former SS-7 ICBM complexes in the central and eastern USSR currently have ten bay garages

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10. SS-20 field training exercises in the Drovyanaya Complex were as follows:

Location	Date	Remarks	
West of MOB 5 at 51-24-41N 112-52-20E	[REDACTED]	Camouflaged C3 Unit	25X1
FTA RC (FTA 016 290/0067) [REDACTED]		Camouflaged SS-20 Launch Battalion	25X1
FTA RD (FTA 017 305/0061) [REDACTED]		Camouflaged C3 Unit	25X1
FTA RB/RVT (FTA/R 015 306/0068) [REDACTED]		Four camouflaged SS-20- associated vehicles	25X1
FTA 1A/RVT (FTA/R 001 274/0074) [REDACTED]		One SS-20 TEL with training canister	25X1
FTA 1B/RVT (FTA/R 002 276/0071) [REDACTED]		Six camouflaged SS-20- associated vehicles/ equipment	25X1
FTA 1C/RVT (FTA/R 003 273/0086) [REDACTED]		Eight camouflaged SS-20- associated vehicles	25X1
FTA 2A/RVT (FTA/R 009 235/0126) [REDACTED]		Three camouflaged SS-20- associated vehicles (S/WN)	25X1

Western Siberia

11. **Kansk Mobile IRBM Base 1.** On [REDACTED] net-covered and uncovered probable SS-20 SBG components consisting of probable corner post sections and wall stanchions for an undetermined number of garages were observed in the operations area near two of the nine SBG footings. These components probably came from Kansk SS-20 Support Complex where, on [REDACTED] SBG components were identified for the first time. In addition, two SBG foundations had netting over them (Figure 3). Kansk Mobile IRBM Base 1 is one of two SS-20 bases in the early stages of construction at Kansk. (S/WN) 25X1

12. **Kansk Mobile IRBM Base 2.** On [REDACTED], this newly identified SS-20 scratch built base was in the early stages of construction at 56-20-40N 095-16-22E. The base, 7.5 nm west-southwest of Kansk Mobile IRBM Base 1, consisted of footings for three SBGs and one five-bay garage, clearings for numerous other buildings, and a temporary construction camp. By [REDACTED] footings for three five-bay garages, three SBGs, and clearings for six SBGs were present. In addition, footings for two multibay garages were also visible. This base was the 41st mobile IRBM base to be identified in the Soviet Union and the second in the Kansk area (Figure 4). (S/WN) 25X1

13. **Kansk SS-20 Support Complex.** On [REDACTED] probable SS-20 SBG components consisting of three probable corner post sections, two probable interior wall stanchions, and several possible wall and roof panels (not enough for one complete SBG) were identified in the transshipment area (Figure 5). These components were not present on [REDACTED] and are probably the initial shipment for Kansk Mobile IRBM Base 1 or Kansk Mobile IRBM Base 2, both in the early stages of construction. The newly identified SS-20 components at Kansk may have come from Glazov MSR, where SS-20 SBG components were shipped out between [REDACTED] (S/WN) 25X1

14. **Barnaul Mobile IRBM Base 2.** On [REDACTED] this newly identified SS-20 scratch built base was in an early stage of construction at 52-18-19N 084-09-03E. The base is 15 nm east of Barnaul and 28 nm south-southeast of Barnaul Mobile IRBM Base 1. The new base consisted of foundations for two five-bay garages, at least one multibay garage, and several other buildings (Figure 6). No indication of SBG construction was observed at that time. This base was the 42d mobile IRBM base identified in the Soviet Union, the second in the Barnaul area, and the 20th base east of the Ural mountains. (S/WN) 25X1

15. **Novosibirsk FTA RE/RVT [REDACTED] FTA/R 001 251/0019.** On [REDACTED] a probable SS-20 field training exercise was being conducted in a new probable SS-20 bivouac/field training area, approximately 300-meters east of the Novosibirsk IRBM RTP [REDACTED] and immediately adjacent to the unoccupied Novosibirsk FTA RA/RVT (FTA/R 001 251/0019). The training area, which appeared to be large enough to support regimental SS-20 exercises, included at least 40 canvas-covered, graded revetments. Many of the revetments resembled those observed at known SS-20 field training areas, while others probably served as temporary shelters for support personnel. The largest canvas-covered revetments were approximately [REDACTED]. Security fences were being erected around two areas; one fence enclosed 16 revetments (Figure 7). In addition, at least five vehicles (including three SS-20 MSVs) were present. This new bivouac/field training was in the initial stages of construction on [REDACTED] (S/WN) 25X1

16. On [REDACTED] preparations for a probable large scale SS-20 field training exercise appeared to be in progress at Novosibirsk FTA RE/RVT (FTA/R 001 251/0019). At 0509Z, a probable C3 unit consisting of at least ten camouflaged SS-20-associated vehicles and a long canvas tent were in an open area along a tree line. Two of the vehicles appeared to be supporting erected masts; a convoy of ten small trucks and two buses was nearby. The FTA was not secured, and three probable SS-20-associated vehicles were on the 25X1

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main access road north of the FTA. By 0851Z, the site remained unchanged, except that the two masts were no longer erected and six vehicles were being added to the convoy, bringing the total number of vehicles to 16. (S/WN)

17. SS-20 field training exercises in the Novosibirsk complex were as follows:

Location	Date	Remarks
FTA RE/RVT (FTA/R 001 251/0019)		Large scale exercise Camouflaged C3 Unit (S/WN)

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18. **Verkhnyaya Salda ICBM RTP** [redacted] a probable MSV and a truck-mounted crane were in front of the clerestory payload assembly building in the NPHF, and a large rectangular area (large enough to accommodate a TEL) had also been cleared of snow in front of the high two-bay building. Cleared positions for probable TEL leveling jacks have also been seen in this area as recently as [redacted]. Other activity within the RTP included vehicle tracks near the SS-20 TEL mockup and training SBG, suggesting that SS-20 training activity may have recently been conducted. (TSR)

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19. On [redacted] two probably transportable SS-20-associated vehicle mockups were at Verkhnyaya Salda RTP, near the administration/shop building (Figure 8). The first mockup resembled an MSV and was first observed on [redacted]. The second mockup was canvas covered and may simulate an MSV; this mockup has been in the RTP since at least [redacted]. The mockups were probably constructed on modified SS-5/-7 missile transporters. In addition, at least one SS-5 missile transporter was being towed near the mockups and a probable stationary SS-20 TEL mockup was near the training SBG in the RTP. (S/WN)

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20. **Yurya Mobile IRBM Base 3.** On [redacted] possible missile system checkout/maintenance was in progress in the operations area. At 0719Z, an SS-20 TEL with missile canister was inside an open-roofed SBG (Figure 9), and four van-body trucks were near the garage apron. By 1109Z, the activity had ended; the SBG roof was closed and the four trucks were not present. Similar activity had also been underway in a different battalion area on [redacted] when the roof of one SBG was open and a probable missile canister atop an SS-20 TEL was visible through the open roof. Activity on [redacted] suggests that similar activity was probably conducted in the third battalion area of the SS-20 regiment housed at this base. (S/WN)

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21. **Yurya ICBM R/R Transfer Point** [redacted]. On [redacted] a probable SS-20 IRBM payload-associated operation was in progress at the [redacted]. Two MSVs, one van truck, two small trucks, and numerous personnel were in the [redacted]. In addition, six probable security vehicles were outside the main entrance of the [redacted]. The presence of vehicles within the [redacted] and the probable security vehicles at the main entrance strongly suggests the payload calibration/checkout or warhead mating was in progress. (S/WN)

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Western USSR

22. **Krolevets Mobile IRBM Base 1.** On [redacted] an SS-20 TEL with a training canister was in the motor pool (Figure 10). This was the first identification of SS-20 equipment at this Mobile IRBM Base. (S/WN)

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Missile Support Rear Depots

23. **Balta MSRD.** On [redacted] components for at least 17 SBGs were present. This was an increase of two since [redacted] components for at least three more SBGs had arrived, and by [redacted] components for at least 21 SBGs were present. The SBG components observed on [redacted] were at a rail siding near the center of the facility. The delivery of the components and the addition of a fourth storage area in the northwest corner of the facility suggest that stockpiling of SBG components will continue for an indefinite period. Similar SBG component storage had been seen at Glazov MSRD. (S/WN)

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24. **Glazov MSRD.** On [redacted] MSVs were parked in the missile-associated vehicle RIM and storage area of the facility. By [redacted] the MSVs were no longer present. (S/WN)

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25. On [redacted] components for at least three SBGs were no longer in the receiving area of the facility. These components had probably been shipped from the depot after [redacted] when components for at least 15 SBGs were present. In addition, preparations were in progress to ship additional components adjacent to the normal storage area (Figure 11). The components from Glazov were probably destined for one or more of the three SS-20 mobile IRBM bases currently under construction near Barnaul and Kansk. (S/WN)

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26. **Novaya Mezinovka MSRD.** This MSRD was imaged on [redacted] no significant activity or changes were observed. (S/WN)

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Missile Test Centers

Kapustin Yar Missile/Space Test Center SSM

27. All 12 of the SS-20-associated facilities and CTAs were imaged during the reporting period. Significant activity for the period included the identification of field training activity at two CTAs, at a previously abandoned test site in launch complex C, and at the Kapustin Yar MR/IRBM Bivouac Troop/Training Area [redacted] new modification/construction at an LTS, continued construction at an LTS, and continued construction of a new LTS, all in launch complex C; and continued construction at Kapustin Yar GSA [redacted] and at Kapustin Yar Missile RISA [redacted] DEFSMAC reported four launches of the SS-20 IRBM from Kapustin Yar during the reporting period (S/DQ/454-83 [S], S/DQ/313-83 [S], S/DQ/338-83 [S], and S/DQ 364-83 [S]). Activity corresponding to three of these launches was observed at Kapustin Yar MR Test Complex C Site 1 [redacted] No imagery was available to correlate the fourth launch with any of the Kapustin Yar facilities. (S/WN)

SS-20 Field Training

28. **Kapustin Yar Mobile IRBM CTA 2** [redacted] an SS-20 field training exercise was observed in this area. This exercise included two camouflaged SS-20 TELs and at least five camouflaged SS-20-associated support vehicles (Figure 12). By [redacted] the vehicles had departed. (S/WN)

29. **Kapustin Yar Mobile IRBM CTA 5** [redacted] until the end of the reporting period, an SS-20 field training exercise was observed in this area. The exercise primarily involved two camouflaged units—a launch unit (consisting of two SS-20-associated TELs and eight SS-20-associated support vehicles) and a communications unit (consisting of nine SS-20 associated support vehicles). A temporary support area consisting of seven tents was also present. Since 11 June, only the launch unit was present. (S/WN)

30. **Kapustin Yar MR/IRBM Bivouac Troop/Training Area.** On [redacted] a camouflaged SS-20 unit (consisting of two TELs, four probable MSVs, and two other SS-20-associated vehicles) was in the battalion training area of this facility. (S/WN)

31. **Kapustin Yar C6 SSM Test Position** [redacted] the previously reported SS-20 field training exercise (first observed on [redacted]) was continuing at this abandoned test site. This exercise primarily involved a camouflaged launch unit (consisting of two probable SS-20 TEL, two or three probable [redacted] MSVs, and a probable BTR-60PA command vehicle) and a camouflaged unidentified unit (consisting of four to five vehicles, some of which may have been MSVs). Both units had departed by [redacted] and were not observed during the remainder of the reporting period. (S/WN)

Activity in Support of SS-20 Flight Testing and Crew Training

32. **Kapustin Yar MR Test Complex C Site 1.** Major modification/construction, first identified at this site in late March, was continuing throughout the reporting period. A new road originating at the main access road, southwest of the site entrance, and parallel to the southern and eastern portions of the existing fence line is under construction. At one point, the main portion of the new road intersects the fence line from the northeast, and a unique road pattern has been constructed which intersects the existing fence line several times and runs adjacent to the SBG. The road has an elevated roadbed and will be hard surfaced. Five large graded/excavated areas (three of which were previously reported as possible launch pad positions) are along the outside of the new road. Vehicle tracks lead from these areas to the new road, and it appears that at least some dirt was taken from these areas to build up the roadbed. Since [redacted] a small building, approximately [redacted] has been under construction behind the five-bay garage. The reason for this new construction has not yet been determined; however, based on past site association with the SS-20 mobile IRBM system, this activity could support a variant of the SS-20 or a new mobile missile system (Figure 13). (S/WN)

33. Other activity at this facility included SS-20 units supporting crew training launches. On [redacted] prelaunch activity was observed when a camouflaged SS-20 TEL and two camouflaged MSVs were on LP 1C-3. On [redacted] at least three vehicles were on LP 1C-3. This activity corresponds to SS-20 launches from Kapustin Yar on [redacted] (S/WN)

Activity in Support of New/Unidentified Missile Systems

34. **Kapustin Yar MR Test Complex C Site 2** [redacted] During the reporting period, construction was continuing on two buildings at this test launch site. The first building, approximately [redacted] meters, is southwest of LP 2C-2 and was still in the footing stage. The second building under construction, approximately [redacted] is west of LP 2C-2 and appears to have all of its footings installed with wall stanchions in approximately 95 percent of the footings. The reason for this construction has not been determined. [redacted]

35. **Kapustin Yar MR Test Complex C Site 8** [redacted]. Final stage construction of both LP 8C-1 and LP 8C-2 were observed during the reporting period. By the end of the reporting period, the roofs of the subsurface probable launch control buildings at both pads had been covered with a dark-toned probable waterproofing material and the apron at LP 8C-2 was nearly complete (Figure 14). Since [redacted]

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a small structure had been erected near the probable launch position at LP 8C-1. This structure was placed on rails that run along the long axis of LP 8C-1, parallel to the subsurface probable launch control buildings. This structure will probably be used to checkout the launch position before flight testing from this site. (S/WN)

36. **Kapustin Yar MR Test Complex C Site 4C1** [redacted] A new unidentified area has been under construction since [redacted]. The construction consists of an approximately 1,076-meter-long graded area (probably an access road) that extends from the fenceline to a point east of this launch test site. By the end of the reporting period, the probable access road had been extended an additional 244 meters south, and three additional areas of grading/excavation had been identified. The first unidentified area is at the terminus of the 244-meter southward extension, and the other two areas are near the end of the 1,076-meter probable access road. (Figure 15). (S/WN)

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Support Areas

37. **Kapustin Yar GSA.** Construction, adjacent to the south end of the facility, continued throughout the reporting period. On [redacted] wall stanchions were being installed for a high two-bay garage. Also on that date, the new missile receiving and checkout building was externally complete and an unidentified, multistory building was in the midstage of construction (Figure 16). (S/WN)

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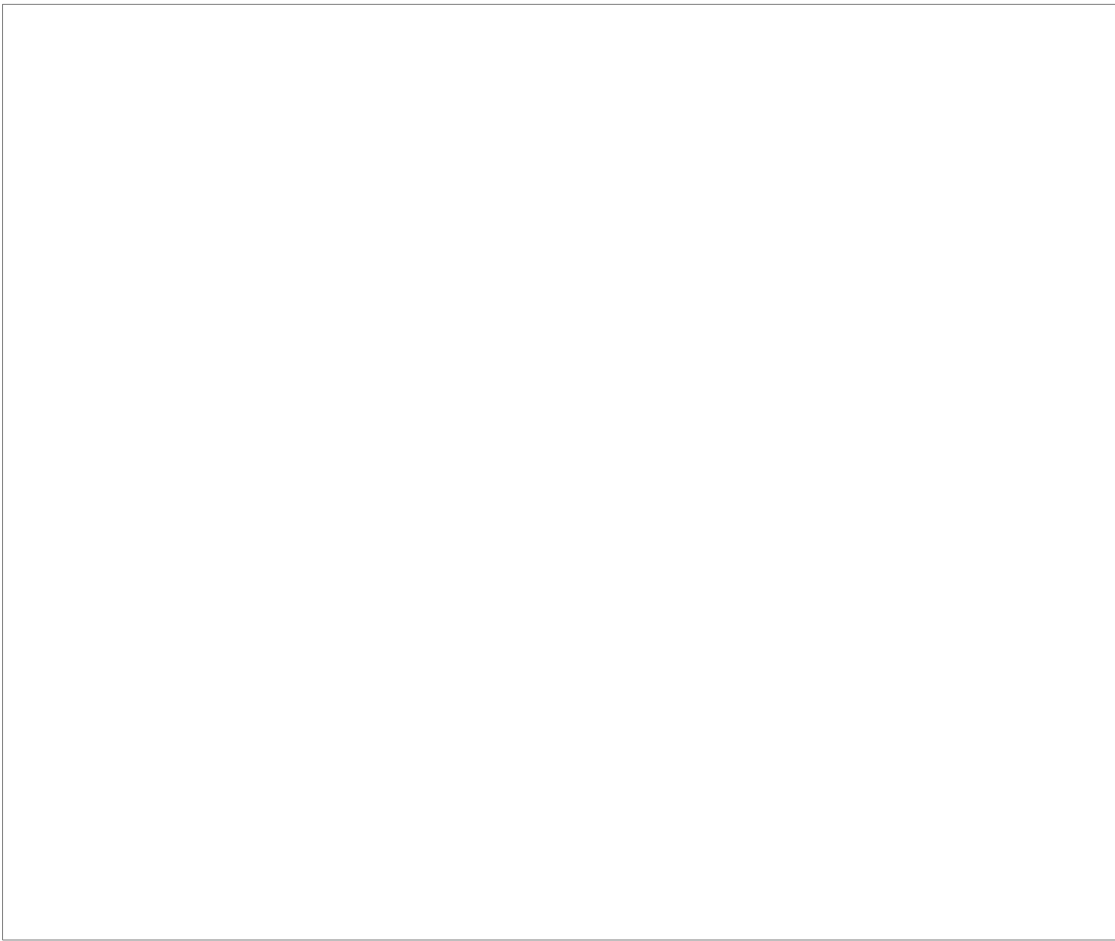
38. **Kapustin Yar RISA.** Construction of the new missile-associated building at the north end of the facility was progressing slowly during the reporting period. (S/WN)

Plesetsk Missile/Space Test Center SSM

39. All four of the mobile ICBM-associated bases—Mobile ICBM Facility 1 [redacted], Mobile ICBM Facility 2 [redacted], ICBM LTS 5 [redacted], and ICBM LTS 6 [redacted]—and all seven of the mobile ICBM-associated support/launch test facilities were observed during this reporting period. Significant activity observed in the period included a continuing pattern of snow removal associated with the 42 LRP's during the 1983 winter/spring season, pre- and postlaunch activity at an LTS associated with a new small-size, solid-propellant ICBM, continued construction in the Plesetsk Missile Handling Facility [redacted], continued construction of facilities to support a rail-mobile ICBM, and further construction of a new probable (MRACA) for an unidentified-size, solid-propellant ICBM. (S/WN)

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Mobile ICBM-associated Bases

40. All 42 LRPs at the four mobile ICBM bases were observed at least once (Chart 1) during the reporting period. Canvas-covered probable AADs were occasionally detected in some of the LRPs. The snow removal pattern observed for the last six years at these four bases continued through the 1983 winter/spring season, with maintaining accessibility to the LRPs a priority. (TSR)

41. **MOB 1 and MOB 2.** During the reporting period, the remaining six quonset-garages—three at each base—were dismantled (the bases originally had 12 garages in all; six were previously dismantled (Figure 17). The reason for the garage dismantlement has not been determined, and NPIC's judgment regarding the status of SS-16s garrisoned at these bases remains unchanged [REDACTED]. This type of garage was not installed in the operations area of LTS 5 and LTS 6. (S/WN)

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Small-solid ICBM Launch Test Sites

42. **Plesetsk ICBM Launch Test Site 21** [REDACTED] No significant activity was observed. (S/WN)

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43. **Plesetsk ICBM LTS 23** [REDACTED] **and collocated LTS 24** [REDACTED]. During the reporting period, pre- and postlaunch activity was observed at these sites. On [REDACTED] at LTS 23, snow was cleared from the silo, the turnaround aprons, and the can/cap transporter silo loader HP/TD positions, suggesting that silo loading preparations were in progress. Between [REDACTED] a can/cap transporter was on the turnaround apron at LTS 24. DEFSMAC reported the second successful launch of a PL-05 on [REDACTED] (DEFSMAC S/DQ/375-83 [S]). Postlaunch activity was observed at LTS 23 on [REDACTED], when a probable can/cap silo loader was aligned with the closed silo door. On [REDACTED] probable prelaunch activity was again underway at LTS 23 and LTS 24 when a can/cap transporter was on the turnaround apron at LTS 24. On [REDACTED] DEFSMAC reported the third successful launch of a PL-05 (DEFSMAC S/DQ/467-83 [S]). (S/WN)

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44. **Plesetsk MHF** [REDACTED] Modification/construction in the SS-16/PL-05 RIC area was continuing at a steady pace (Figure 18). The previously reported nine-bay garage was externally complete by the end of the reporting period and construction was continuing on a new probable component calibration building (originally assessed to be a possible SBG) in the north end of the facility. By early June, the probable component calibration building, approximately [REDACTED] was in the late stage of construction. Grading for a right-of-way for a new possible rail spur had begun on the west side of the clerestory building and extended toward the southeast corner of the facility, where the existing rail spur enters. Furthermore, foundations for three new buildings were identified in the southeast quadrant of the facility. The southernmost building is at the terminus of the right-of-way grading. By the end of the reporting period, all three buildings were still in the early stages of construction; thus, precluding an accurate assessment of each building type and/or function. Between [REDACTED] the can/cap transporter was observed under the shedlike extension to the modified SS-16/PL-05 RIC building; however, from [REDACTED] neither the can/cap transporter nor the silo loader were observed, and their absence probably corresponds to the pre-and postlaunch activity at LTS 23 and LTS 24. On [REDACTED] the can/cap transporter was again observed in the SS-16/PL-05 RIC. (S/WN)

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Rail Line Construction at Plesetsk

45. Construction on the eastern extension of the main complex rail line was continuing throughout the reporting period at a somewhat slower pace. Based on the current pace of construction, it may be early 1984 before rails are installed to LTS 28. (S/WN)

46. Construction of the new rail-served ICBM launch test facility, adjacent to LTS 28, was continuing during the reporting period (Figure 19). By early June, initial roofing of the buried launch control building was nearly complete. The type and configuration of cable/conduit trenches from this new buried launch control building indicates that at least one launch test position will be constructed in this area. In addition, the foundation of the previously reported 50-meter-long, rail-served structure had been extended; it appears that this structure will be approximately 102 meters long when complete. Other buildings under construction include an externally complete instrumentation position (identical to the line-of-sight positions installed at LTSs 22 and 28) and a support building. It does not appear that the support building will be rail served. Construction of the missile R&D program-associated structures in this area suggests that the Soviets may flight test a rail-mobile variant of the SS-X-24. The SS-X-24 has been flight tested four times at Plesetsk; twice from silo 28A and twice from the silo at LTS 22. (S/WN)

Activity in Support of an Unidentified Solid Propellant ICBM

47. Construction continued at a moderate pace in the new MRACA for an unidentified-size, solid-propellant ICBM (Figure 20). By the end of the reporting period, the new, 81-meter long, high-bay probable missile receiving and checkout building was externally complete. Three rail lines extend through this building and a fourth rail line was laid next to the building. All four rail lines converge into a single rail line that enters a 104-meter-long high-bay building in the late stage of construction north of the 81-meter high-bay building. The 104-meter building, previously reported as a covered transloading dock, will have a rail-served, high-bay section and a low-bay section that is not rail-served. The rail-

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served, high-bay section is 12 meters high and 12 meters wide and was externally complete by the end of the reporting period. The low-bay section, which was in the early stage of construction, extends along the entire length of the high-bay section and will also be 12 meters wide. An additional set of footings are perpendicular to the 104-meter structure. A four-bay, rail-served structure was under construction at the south end of a fifth rail spur in this facility. The four-bay structure will be approximately 36 by 24 meters and may serve as a holding/temporary storage area for railcars that enter the facility. A railshed/rail-through building and a possible multibay garage were also in the early stages of construction. If construction at this facility continues at the pace observed and if no other major construction is begun, this facility could be complete during early 1984. (S/WN)

Bryansk Guided Missile Support Equipment Plant II [REDACTED]

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48. SBG components were still being made at and shipped from Bryansk, with no apparent change in the rates of fabrication and shipment. No coverage was available between [REDACTED] the information cutoff date. (S/WN)

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49. On [REDACTED] SBG components were loaded onto four railcars in the SBG components storage area, next to the MSE area. Since most shipping operations take place at night, shipping of components is seldom observed. (S/WN)

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Shumerlya Possible Missile Ground Support Equipment Plant [REDACTED]

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50. A new [REDACTED] MSV, possibly a variant of the [REDACTED] MSV, was at Shumerlya on [REDACTED] (Figure 21). The MSV was in a parking area west of the large assembly building in the western part of the plant. Two [REDACTED] MSVs were on railcars south of the assembly building. This is the first time [REDACTED] MSVs have been associated with the plant, where previously only [REDACTED] MSVs were observed. The [REDACTED] MSV had eight windows along each side of the chamfered-roof of the van body. One of the two [REDACTED] MSVs had seven windows along at least one side of the chamfered-roof van body, and the other had six (Figure 22). In addition, two [REDACTED] MSVs were on railcars. (S/WN)

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51. Seven MAZ-543SP chassis were at the eastern end of the plant. These chassis are probably brought to Shumerlya from Minsk Motor Vehicle and GM Spt Equipment Plant [REDACTED] to be fitted out as [REDACTED] MSV or [REDACTED] probable MSV. (S/WN)

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Volgograd Steel and Machinery Plant Krasny Barricada 221 [REDACTED]

25X1

52. A probable new type of mobile missile-related vehicle was in the MSE yard on [REDACTED] (Figure 23). Two partially canvas-covered vehicles mounted on MAZ-543SP chassis were observed. Each vehicle is [REDACTED] long and has a [REDACTED] chamfered-roof van-bodied section. A canvas-covered boxlike structure approximately [REDACTED] square was centered between the cab and the van-bodied section. Also on [REDACTED] nine MAZ six-axle chassis were present in the MSE storage yard. This is the first time since July 1980 that more than one six-axle chassis has been seen at Volgograd. Four of the nine chassis seen in May 1983 were of the type used for SS-20 TELs. The other five were differently configured. The right passenger cab was mounted in a higher position over the front axle rather than in front of the axle, giving the driver an unobstructed view of the right side of the vehicle. Modified chassis of this type have been observed at Volgograd since May 1976. The chassis used for the SS-20 TEL was first observed at the Volgograd plant in May 1975. Both types of chassis are produced at Minsk Motor Vehicle Plant and GM Support Equipment plant and shipped to Volgograd. At Volgograd, the standard six-axle chassis is fitted out as SS-20 TEL and then tested at a remote test facility. The modified chassis has not been identified fitted out as a mobile missile TEL or in any other configuration. US military attaches have photographed both type of six-axle chassis on the ring road around Minsk. (S/WN)

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Significant C3 Developments (Table 2)

53. On [REDACTED] a division-level C3 facility was identified in the early- to midstage of construction at Kansk SS-20 Support Complex. This is the second scratch built SS-20 division-level C3 facility to be identified. The first was previously reported at Barnaul. The Kansk facility consists of a multistory control building, a multistory headquarters/administration building, an excavation for a possible third building, and an excavation for a possible lattice tower. The size and configuration of these buildings closely resembles the division-level C3 facility that was identified at Barnaul SS-20 Support Complex. (S/WN)

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54. Regimental-level C3 facilities were under construction at Kansk Mobile IRBM Base 1, Kansk Mobile IRBM Base 2, and Barnaul Mobile IRBM Base 2. (S/WN)

55. On [REDACTED] the C3 facility at Kansk Mobile IRBM Base 1 consisted of a multilevel control building and an 11-bay garage, both in the early- to midstage of construction. By [REDACTED] the C3 facility at Kansk Mobile IRBM Base 2 was in a very early stage of construction. Footings for an 11-bay garage and a rectangular clearing for a possible C3 building were also present. On [REDACTED] foundation beams for a possible C3 building were in the C3 area at Barnaul Mobile IRBM Base 2. In addition, an 11-bay garage was in the midstage of construction. (S/WN)

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56. Construction was continuing on the previously reported division-level headquarters at Barnaul SS-20 Support Complex. On [] a crane was near the headquarters/administration building and the roof appeared to be incomplete. On [] roof construction was nearly complete and the crane was still present. A foundation for another building was near the northeast corner of the headquarters/administration building. (S/WN)

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57. At the regimental-level facility at Barnaul Mobile IRBM Base 1, the C3 building and the 11-bay garage are externally complete. A large rectangular excavation is within the fence line, near the 11-bay garage. (S/WN)

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58. Type-C satellite communications buildings were under construction near the Postavy IR/MRBM Division Command Post/Bunker, Yurya IRBM Division Command/Post/Bunker, and Verkhnyaya Salda SSM Complex Command Post/Bunker. The building at Postavy is approximately 250 meters northeast of the division headquarters and is nearly complete. On [] a parabolic dish antenna was adjacent to an antenna pedestal on the roof of this building. Construction of this building began in mid-1981. The Yurya type-C building, approximately 0.5 nm northeast of the division headquarters, was in a late stage of construction. Although this building had two roof-mounted pedestals for antennas on [] no antennas were observed. Construction began there in early 1982. At Verkhnyaya Salda, the type-C building, on the north side of the facility, was in the midstage of construction. Construction was first observed in March. By [] only the walls of this building had been erected. Five of 11 SS-20 division-level headquarters (Drovyanaya, Mozyr, Postavy, Verkhnyaya Salda, and Yurya) now have satellite communications buildings associated with them. It is assumed that all SS-20 division-level headquarters will eventually have associated satellite communications buildings. In addition to the satellite communications building under construction, a WOOD BINE satellite communications vehicle was observed on [] at Verkhnyaya Salda. This vehicle and six other communications-related vehicles were present as early as [] but could not be identified because of limited image interpretability. The WOOD BINE vehicle and a support vehicle were in a small, separately fenced area near the south end of the control bunker, to which they were cable connected (Figure 24).

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59. A probable MERCURY GRASS antenna was on the roof of a regimental C3 building at Yurya Mobile IRBM Base 2 and at Drovyanaya Mobile IRBM Bases 2 and 4. This is the first identification of MERCURY GRASS antennas at SS-20 C3 facilities. On [] at Yurya, the antenna was on a [] meter-mast beside an existing YU-EL-01 antenna (Figure 25). The MERCURY GRASS antenna was oriented [] toward an undetermined correspondent. In addition, a [] mast was on a similar building at Drovyanaya IRBM Base 2 on [] and at Drovyanaya IRBM Base 4 on []. These masts probably also support MERCURY GRASS antennas, even though the antennas themselves could not be discerned. MERCURY GRASS antennas are generally used for line-of-sight communications with correspondents up to approximately 30 miles away. (S/WN)

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60. A STICK PIN antenna was identified on top of a steel lattice tower at the Lebedin IRBM Regimental Command Post/Bunker on []. STICK PIN antennas, which have an undetermined C3 function, have been identified on towers at only four other operationally deployed mobile IRBM bases—Dyatlovo Mobile IRBM Base 1, Lida Mobile IRBM Base 1, Lutsk Mobile IRBM Base 1, and Novosibirsk Mobile IRBM Base 4. Also at the Lebedin Regimental Headquarters, a previously reported 35-by-7-by-4-meter support bunker, first seen under construction in the summer of 1981, was earth covered and complete on []. This support bunker is used for personnel and probably does not serve a critical support function since the mobile IRBM base at Lebedin was already operational by May 1982. (S/WN)

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61. An unidentified rectangular building, approximately 100 meters east of the Mozyr MRBM Division Command Post/Bunker, has been under construction since mid-March. By [] trees had been cleared from the area, heavy ground scarring was evident, and a partially constructed building was observed. The partially constructed building was trench connected to the triple-arch-roofed bunker area and therefore will probably support C3 operations. Trees and shadows precluded mensuration of this building. (S/WN)

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62. Six previously reported irregularly shaped buildings at/near Konkovich Mobile IRBM Base, Rechitsa Mobile IRBM Support Base, Postavy Mobile IRBM Base, Polotsk Mobile IRBM Base 2, Yoshkar-Ola ICBM Complex Command Post/Bunker/Hard, and Plesetsk SRF Army Missile and Space Test Complex Communications Center have recently been identified as auditoriums/theaters (Figure 26). This identification is based upon the observation of the building interior at Yoshkar-Ola during construction on [] imagery (Inset, Figure 26). On this imagery, the exposed interior of the building featured a large floor that sloped downward towards a raised platform or stage. The sloped floor had a series of dark-toned marks probably intended for the future installment of seats. Other portions of the building

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Table 2. C3 Developments at Deployed SS-20-Associated Facilities as of [redacted]

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This table in its entirety is classified TOP SECRET RUFF

	Active, Dismantled Under Construction Towers	30 Meter Lattice Tower	ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED											PRESENT ANTENNA INVENTORY										Comments									
			Roof Mounted Array (TU/EJ-D)	Horizontal Dipole Antenna	Flatbone Antennas	Rhombic Antennas	Quadrant Antennas	Handicapped Antennas	Antenna Mast	Lattice Towers (all types)	Horizontal Dipole Antennas	Flatbone Antennas	Rhombic Antennas	Quadrant Antennas	Handicapped Antennas	Antenna Mast	Large C-Shaped C3 Bldg	Small C-Shaped C3 Bldg	Rectangular Bldg Assoc w/Signal C-Shaped Bldg	3 Story Rectangular C3 Bldg	Bunker Modification Yes/No/Completed	Communications Satellite Station	Multiple TWIN EAR Unit Regularly Seen										
CHITA SRF ARMY Drovynaya ICBM/IRBM Div																																	
CP/Bnk [redacted]	A	4			2				6					3														Comp	Type B*	No	WOOD BINE Satellite Communications vehicle identified.		
Rad Rcvr [redacted]	A	2							2	1				4														No	Yes	Parking apron for TWIN EAR still upon			
Rad Rcvr [redacted]	A	2							3	2																	Yes*	Yes*	2 sets of mast-mounted, TWIN EAR ants erected				
Rad Xmtr [redacted]	A									4				8													No	No					
Mobile Base 1 [redacted]	A	2	Yes						2	2																		*	*	Occasionally seen			
Mobile Base 2 [redacted]	A	2	Yes						1	2																		*	*	Occasionally seen: prob retract masts on three-bay garages			
Mobile Base 3 [redacted]	A	2	Yes						2	2																		*	*	Occasionally seen			
Mobile Base 4 [redacted]	A	4	Yes						4																			*	*				
Mobile Base 5 [redacted]	A	2	Yes						2																			*	*	Occasionally seen			
VINNITSA SRF ARMY Mozyr IRBM Div																																	
CP/Bnk [redacted]	A									2																	Comp	Type A	No	Probable computer bldg near bunker: unid bldg upon nearby			
Rad Rcvr [redacted]	A									4				2	2	3*											No	No	No	2 masts support FORK REST ants			
Rad Xmtr [redacted]	A									7				2		4*											No	No	No	2 masts support FORK REST ants (Dec 77 imagery)			
Mozyr Mobile IRBM Base/ Training Fac	A		No	2						2							1	1	1								No	No	No	Ants by C-shaped C&O bldgs			
Konkovich MRBM Regt																																	
CP/Bnk [redacted]	A			2																							Yes	No	No	This facility near the mobile base			
Rad Rcvr [redacted]	D										3																No	No	No	This facility near the mobile base			
Rad Xmtr [redacted]	A										8				1 prob												No	No	No				
Mobile Base [redacted]	A		No														1*										No	No	No	Auditorium/Theater, upon adjacent to this bldg			
Kozhanovich MRBM Regt																																	
CP/Bnk [redacted]	A																										No	No	No	This facility near the mobile base			
Rad Rcvr [redacted]	A			2							4				2												No	No	No	This facility at the mobile base			
Rad Xmtr [redacted]	A										1																No	No	No				
Mobile Base [redacted]	A		No														1*										No	No	No	Auditorium/Theater upon near this bldg			
Gomel MRBM Regt																																	
CP/Bnk [redacted]	A																										No	No	No	2 masts support FORK REST ant			
Rad Rcvr [redacted]	A										2				2	1	5*										No	No	No	3 FORK REST ants			
Rad Xmtr [redacted]	A										8				4	3*											No	No	No				
Rechitsa Mobile IRBM Spt Base*	A		No	2						2*							1*	1*	1								No	No	No	Ants by C-shaped C3 bldg; auditorium/theater upon near these bldgs			
Lutsk MRBM Div																																	
CP/Bnk [redacted]	A									2																					2 FORK REST ants		
Rad Rcvr [redacted]	A									2					2	2	2	2	2*														
Rad Xmtr [redacted]	A									5					4	2																	
Mobile Base [redacted]	A			2																													
Lutsk MRBM Regt																																	
CP/Bnk [redacted]	A																															This facility at MRBM launch site 1	
Rad Rcvr [redacted]	D										4 (Abnd)									Yes												This facility at MRBM launch site 1	
Mobile Base 1 [redacted]	A			2						1	2*	2																				Both lattice towers have a STICK PIN antenna on top; C3 building has a roof-mounted probable antenna array	
Kivertsy MRBM Regt																																	
CP/Bnk [redacted]	A*			1							1																	Yes	No	No	This facility at IRBM Payload Handling Facility; bunker modifications still underway		
Rad Rcvr [redacted]	D										4																					This facility at IRBM Payload Handling Facility;	
Mobile Base 2 [redacted]	A	2		2							2	2																				C3 bldg has roof-mounted prob antenna array	
Romny IR/IRBM Div																																	
CP/Bnk [redacted]	A										1																	Yes*	No	No	Underway		
Rad Rcvr [redacted]	A										4																						
Rad Xmtr [redacted]	A										4																						11 revetments in ant field Mar 78

*See comments.

Red indicates changes since [redacted] the cutoff date of the updated report. [redacted]

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Table 2. (Continued)

	Active/Operational/Under Construction/30 Meter Lattice/Logan/Revolving Antennas (Y/N) (LCI)	ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED												PRESENT ANTENNA INVENTORY											Comments	
		Roof Mounted Arrays	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-shaped C3 Bldg	Small C-shaped C3 Bldg	Rectangular Bldg Assoc w/Small C-shaped Bldg	3-Story Rectangular C3 Bldg	Bunker Modification Yes/No/Completed/Status	Communications Satellite	Mobile TWIN EAR Unit	Recovery Scan			
Kirovets IRBM Regt																										
CP/Bnk*	A	2*		2 (Comp)					2	2 (Comp)																This facility at Mobile Base 1; C3 bldg has roof-mounted prob antenna array. STICK PIN antenna identified on 1 tower.
Rad Rcvr*	D																									This facility at Mobile Base 1; 6 horizontal dipoles and 2 masts removed
Rad Xmtr*	A								6																	
Mobile Base 1*	U																									See CP/bnk entries
Lebedin IRBM Regt																										
CP/Bnk*	A	2		2					2	2										Yes						This facility at Mobile Base 1;
Rad Rcvr*	D																									This facility at Mobile Base 1
Mobile Base 1*	A																									See CP/bnk entries
OMSK SRF ARMY																										
Novosibirsk IRBM Div																										
CP/Bnk*	A	4			1			1	8	2	1									Comp						Unusual trenches around the 4 lattice towers
Rad Rcvr*	A	1		2				1	1	2	2															This facility has 4 new lattice towers
Rad Xmtr*	A	2		7		6		1	2	7		6		1												
Mobile Base 1	A	2	Yes						2																	
Mobile Base 2	A	2	Yes						2*																	
Mobile Base 3	A	2*	Yes						2																	
Mobile Base 4	A	2*	Yes						2																	
Mobile Base 5	A	2*							2							1*										1 Lattice tower has a STICK PIN antenna on top
Mobile Base 6	A	2	Yes						2																	Roof-mounted prob ants
SMOLENSK SRF ARMY																										
Pastvay IRBM Div																										
CP/Bnk*	A	4		2			1	3	4	4			1							Comp	Yes	Yes				5 van trucks & trailers at bnk; 3 new lattice towers with 3 TWIN
Rad Rcvr*	A	3							4												No	No	No			EAR ants
Rad Xmtr*	A									9		2		6							No	No	No			
Mobile Base 1	A		No																							This facility at the mobile base; dipole back up
CP/Bnk*	A		2*						2*						1*					Comp	No	No	No			auditorium/theater complete near this bldg
Rad Rcvr*	D																				No	No	No			This facility near the mobile base
Mobile Base 1	A		No																					Yes		See CP/Bnk entries
Smorgon IRBM Regt																										
CP/Bnk*	A	2		2			1		2	2										Comp	No	No				This facility at Mobile Base 1; a 2-story irregularly shaped hq/admin
Rad Rcvr*	D																				No	No	No			bldg also present
Rad Xmtr*	A								8			1		1							No	No	No			This facility near Mobile Base 1
Mobile Base 1	A		No																							
Mobile Base 2	A	2	No	2			1		1	2					1*											Occasionally seen; admin-type hq has newly identified in support area
Polotsk MRBM Regt																										
CP/Bnk*	A			2			3		2												Yes	No	No			This facility at Mobile Base 1
Rad Rcvr*	D																				No	No	No			This facility at Mobile Base 1
Rad Xmtr*	A								8					1*							No	No	No			Polotsk/Diana MRBM Regt Xmtr; mast supports a FORK REST ant
Mobile Base 1	A		No																							
Mobile Base 2	A		No	2			1		2						1*											Roof-mounted prob ants; auditorium/theater complete near C-shaped
Lida IRBM Div																										
CP/Bnk*	A								1												No	No	No			
Rad Rcvr*	A								2		2*			2							No	No	No			Double rhombic ant
Rad Xmtr*	A								10			4		2							No	No	No			
Lida MRBM Regt																										
CP/Bnk*	A																									CP/bnk & rcvr at MRBM at Launch Site 2
Rad Rcvr*	A																									Hardened ant is Type B; at least 2 horizontal dipole ants have been
Mobile Base 1	A	2*		2					2*	2						1*										removed
Mobile Base 1	A																									Roof-mounted prob ants; prob STICK PIN antenna on 1 tower
Greok MRBM Regt																										
CP/Bnk*	A			3*			5*		3																	This facility at Mobile Base 1; 2 of the masts have rotatable log
Rad Rcvr*	A								4			2		1*	2											periodic ant on them
Rad Xmtr*	A			4		2*		1	4		2*															This facility at Mobile Base 1; hardened antenna is type B
Mobile IRBM Base 1	A																									Double rhombic ants

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Table 2. (Continued)

		ANTENNAS ADDED SINCE SS-20 ACTIVITY WAS FIRST OBSERVED											PRESENT ANTENNA INVENTORY											Comments					
		Active Dismantled Under Construction	3D Yagis	Parabolic Lattice Tower	YU-EL (U)	Horizontal Dipole	Y-shaped Antennas	Rhombic Antennas	Quadrant Antennas	Horizontal Antennas	Antenna Mast	Lattice Towers (all types)	Horizontal Dipole	Y-shaped Antennas	Rhombic Antennas	Quadrant Antennas	Horizontal Antennas	Antenna Mast	Large C-Striped C3 Bldg	Small C-Striped C3 Bldg	Rectangular Bldg Assoc w/Small C-Striped Bldg	3-Story Rectangular C3 Bldg	Banker Modification		Yes/No/Completed	Communications Station	Mobile TWIN EAR Unit Regularly Seen		
Dyatlovo MRBM Regt	CP/Bnk*	A	2*		2						2*	2																This facility at Mobile Base 1; one lattice tower has STICK PIN antenna on top	
	Rad Rcvr	A									4				2*	1*	2*											This facility near Mobile Base 1; antennas removed	
	Rad Xmtr	A													2		1												
Mobile Base 1		A																										See CP/Bnk entries	
Slonim MRBM Regt																												Slonim now subordinate to Lida Division; Pruzhany no longer an SS-20 division	
	CP/Bnk*	A	2		2						2	2																This facility at Mobile Base 1	
	Rad Rcvr	A									4				2													This facility at Mobile Base 1	
	Rad Xmtr	A																											
Mobile Base 1		A																										See CP/Bnk Entries	
ORENBURG SRF ARMY																												Type C satellite commo vehicle upon WOOD BINE satellite commo veh identified	
Verkhnyaya Saida IRBM Div																												Mobile TWIN EAR seen here on occasion	
	CP/Bnk	A	7		5	1					3	4	1				2						Comp	uc		*	1 FORK REST ant; 2 TWIN EAR ants present		
	Rad Rcvr	A	3								9	2	2		2	2	7*							No	No	No	Fac prob deactivated		
	Hq Spt Rcvr	A																						No	No	No			
	Rad Xmtr	A									6		4	1		2								No	No	No			
Mobile Base 1		A	2	Yes							2															No	Mobile TWIN EAR seen on occasion		
Mobile Base 2		A	2	Yes							2															No	Mobile TWIN EAR seen on occasion		
Mobile Base 3		A	2	Yes							2															No			
Mobile Base 4		A	4	No							4*															No	Roof-mounted prob ants; 1 lattice tower has been dismantled		
Mobile Base 5		A	2								2															No	Roof-mounted prob ants; second lattice tower identified		
VLADIMIR SRF ARMY																												Type C satellite commo bldg upon	
Yurya IRBM Div																												2 FORK REST ants; 2 pairs of TWIN EAR ant	
	CP/Bnk	A	7		3	1					9	3	1				2						Comp	uc		No	3 FORK REST ants; 1 R-400 ant		
	Rad Rcvr	A	3								3	8			2		5*							No	No	No			
	Rad Xmtr	A			4							8					6*									No			
Mobile Base 1		A	2	Yes							2															No			
Mobile Base 2		A	2	Yes							2															No			
Mobile Base 3		A	2	Yes							2															No	R-400/400 unit identified		
Mobile Base 4		A	2	No							2															No	Roof-mounted prob ants		
Mobile Base 5		A	2								2															No	Roof-mounted prob ants		
NEW FACILITIES																													
Kansk IRBM Div																													
Div Has (No BE Number)											uc																	C3 Bldg upon	
Mobile Base 1																												C3 Bldg upon	
Mobile Base 2																												C3 Bldg upon	
Barnaul IRBM Div																													
Div Has (No BE Number)		U																											C3 Bldg has two roof-mounted prob antenna arrays & an adjacent ha/admin bldg; auditorium/theater upon in area
Mobile Base 1		A	2								2																		C3 Bldg has one roof-mounted prob antenna array
Mobile Base 2		A	2								2																		C3 Bldg and 11-bay garage upon

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*See Comments.
Note: All references to the Olovyanaya and Pruzhany divisions in this table have been dropped because the two divisions are no longer SS-20-associated. An SS-20 base at Olovyanaya was abandoned during construction and an SS-20 base in the Pruzhany division (Slonim Mobile IRBM Base 1) was resubordinated to the Lida division.
Red indicates changes since [redacted] the cutoff date of the updated report [redacted]

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interior were probably for small rooms and corridors. All six of the reported buildings were still under construction as of June 1983. In addition, foundations for three more auditoriums/theaters were newly observed at the Barnaul SS-20 Support Complex on [redacted] at Kansk SS-20 Support Complex on [redacted] and at Kozhanovichi Mobile IRBM Base on [redacted]. Construction of these auditoriums/theaters is significant because they are generally associated with SS-20 C3 facilities, which often consist of a C3 building, an 11-bay garage, and an antenna field (Figure 26). (S/WN)

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63. All of the antennas at Dyatlovo MRBM Regimental Radcom Receiver have been removed. On imagery of [redacted] the two horizontal dipole antennas, two quadrant antennas, and two antenna masts had been taken down. Low trees and shrubs are growing on the hardened antenna, suggesting that it is not in use. (S/WN)

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64. A construction support camp was reestablished by [redacted] in the abandoned antenna field at the Lutsk MRBM Regimental Headquarters Radio Communications Receiver/Bunker/Hard. A similar camp was previously reported in the same area from May to August 1982, probably in support of SS-20 site conversion activity at Lutsk MRBM Launch Site 2 [redacted]. The new construction support camp consists of ten large tents, 14 buildings of various sizes, 13 dispersed trucks/trailers, and an adjacent vehicle park containing approximately 45 additional vehicles. Reestablishment of this camp indicates that additional construction/conversion activity is imminent in the area. (S/WN)

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65. An R-400/-404 microwave antenna was at Yurya Mobile IRBM Base 3 on [redacted] the first identification of an R-400/-404 at an SS-20 base. The R-400/-404 was in a small cleared area near an administration/shop building in the vehicle maintenance/storage area of the support facility. This unit has been deployed at this base since at least April 1982 (Figure 27). The R-400/-404 is a UHF microwave antenna that provides line-of-sight communications with a range of 30 to 50 km. It may be used to communicate with field deployed SS-20 units. On [redacted] during one of the first observed SS-20 field training exercises at Novosibirsk, an R-400/-404 unit was near SS-20 units; however, it could not be determined if the unit was supporting the field training exercise. (S/WN)

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66. By [redacted] at Novosibirsk ICBM Complex Command Post Bunker, unusual trenching patterns were dug around the four new lattice towers that were installed in December 1982. A trench forming a rectangular pattern with a V-shaped trench in the center is around each tower. These four trenching patterns are linked together by a possible cable trench that leads to the control bunker. The purpose of these trenches is undetermined. (S/WN)

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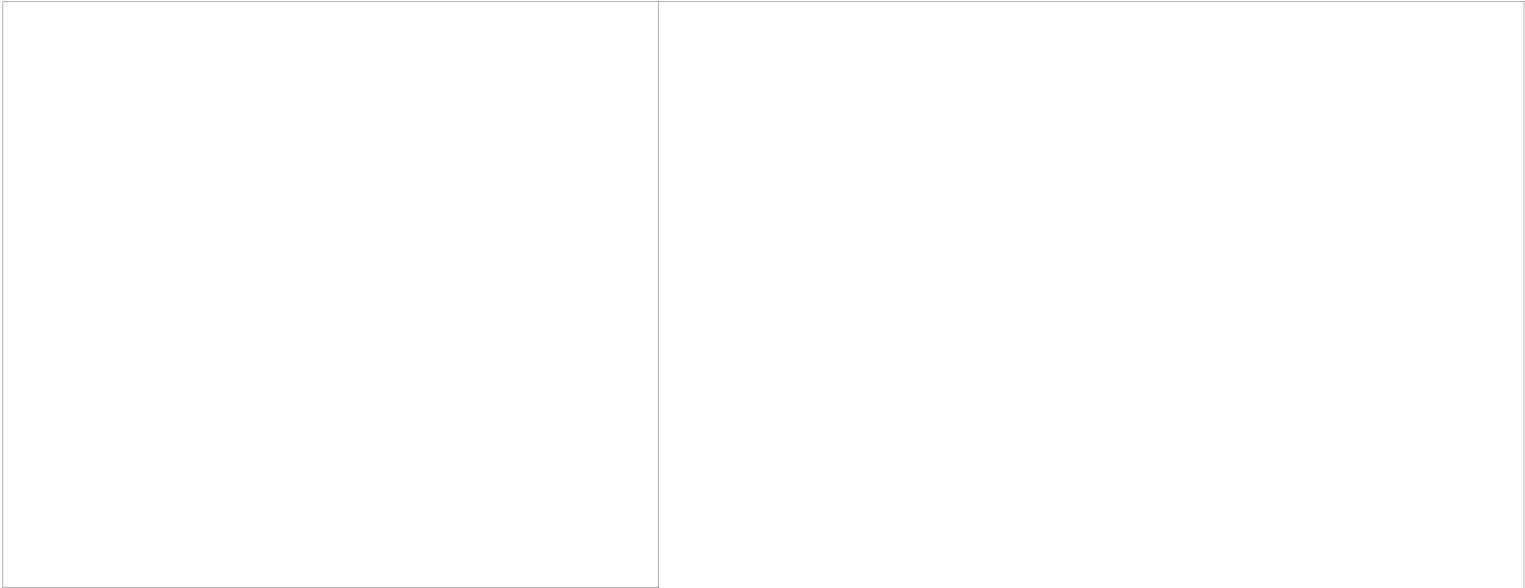
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REFERENCES

IMAGERY

All applicable satellite imagery acquired from [redacted] was used in preparation of this report. IS/WN)

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DOCUMENT

- 1. NPIC [redacted] RCA-01/0001/83, *Soviet Mobile Missile Summary*, [redacted] S), May 1983 (TOP SECRET [redacted])

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		Black	Green
[redacted]	Deployed Bases Missile Test Centers Missile-related R&D & production facilities C3 Activity	[redacted]	[redacted]

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