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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



VOL. 4 OF 4 VOLUMES

**ANNUAL INDEX TO
PHOTOGRAPHIC EXPLOITATION PRODUCTS
JANUARY-DECEMBER 1979**

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FEBRUARY 1980
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PHOTOGRAPHIC EXPLOITATION PRODUCTS

ANNUAL INDEX TO PHOTOGRAPHIC EXPLOITATION PRODUCTS JANUARY-DECEMBER 1979

FEBRUARY 1980

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INTRODUCTION

The Index to Photographic Exploitation Products is a guide to the contents of reports and memoranda produced by means of photographic interpretation. These are added to the Exploitation Products Data File (EPF) of the National Base of Image-Derived Information (NBIDI) when received by the National Photographic Interpretation Center (NPIC). The index includes imagery interpretation reports produced by various components of the Army, Navy, Air Force, Central Intelligence Agency, Defense Intelligence Agency, as well as those produced by NPIC. At the request of COMIREX/NIDBWG, this publication is compiled and published monthly then cumulated annually by NPIC for the use of properly cleared components of USIB member organizations.

Listed documents are on file in NPIC, and microfiche copies are available to requesters when parent organizations are unable to provide copies. Information, such as bibliographies on specific subjects, is available from the EPF to answer requests which cannot be satisfied from the PEP.

Requests for regular distribution of the PEP, for additional information from the EPF, or for microfiche copies of documents should be channeled through appropriate liaison offices located in NPIC. Organizations which do not have a liaison office in NPIC should submit the request in writing to NPIC/PSG/RSD/IB.

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GUIDE TO USERS

The PEP consists of six indexes:

- Subject in alphabetic sequence.
- Originator in report type/number sequence.
- General category with subject in alphabetic sequence.
- Geographic coordinate sequence. (Geographic coordinates area listed where a single area is involved.)

- WAC/BE number sequence.
- Accession number sequence.

The accession number sequence may be referred to for complete information on each document, including edited abstracts. An asterisk at the end of an abstract indicates the abstract was prepared by the Reports Analysis Section. Selected information is contained in the other sequences. The accession number should be used when requesting microfiche copies of documents.

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ABBREVIATIONS AND NUMERIC CODES

REPORT TYPES

ARA	- All Source Research Aid	IRA	- Imagery Research Aid
BIBLO	- Bibliography	IRP	- Imagery Research Paper
BIIB	- Basic Imagery Interpretation Brief	LOT	- Letter of Transmittal
BIIR	- Basic Imagery Interpretation Report	MCS	- Mission Coverage Statistics
BRAD	- Briefing Aid (Only microfiche copies are available.)	MEMO	- Memorandum
BREF	- Photographic Interpretation Brief	MIPIR	- Multi-mission Imagery Interpretation Report
[redacted]		MODL	- Model Announcement
DPIR	- Detailed Photographic Interpretation Report	NAIR	- New Applications of Imagery Report
DSIIB	- Direct Support Photographic Interpretation Brief	NBRG	- National Basic Reference Graphic
DSIIR	- Direct Support Photographic Interpretation Report	NEDR	- Detailed Photographic Interpretation Report (Near East)
ENDR	- Engineering Drawing	NEGR	- General Photographic Interpretation Report (Near East)
FEDR	- Detailed Photographic Interpretation Report (Far East)	NEIR	- Initial Photographic Interpretation Report (Near East)
FEGR	- General Photographic Interpretation Report (Far East)	NESR	- Special Photographic Interpretation Report (Near East)
FESR	- Special Photographic Interpretation Report (Far East)	NEWS	- Technical Newsletter
IIM	- Imagery Interpretation Memorandum	NOTE	- Photographic Interpretation Note
IIR	- Imagery Information Report	OAK	- Initial Mission Readout
INFR	- Inter-office Memorandum	PAR	- Photographic Analysis Report
IPIR	- Initial Photographic Interpretation Report	PIN	- Photographic Interpretation Note
		PIR	- Photographic Interpretation Report

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ABBREVIATIONS AND NUMERIC CODES (Continued)

REPORT TYPES (Continued)

REPT - Photographic Interpretation Report
SPIR - Special Photographic Intelligence Report
SR - Summary Report
STDY - Study
SUPR - Supplemental Photographic Intelligence Report
TP - Technical Publication

07 - CONFIDENTIAL
08 - CONFIDENTIAL [redacted]
10 - TOP SECRET CHESS
11 - TOP SECRET CHESS [redacted]
13 - TOP SECRET CHESS RUFF
14 - TOP SECRET CHESS RUFF [redacted]

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[redacted]

20 - TOP SECRET [redacted]
21 - TOP SECRET [redacted]

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SECURITY CLASSIFICATION

00 - UNCLASSIFIED
01 - TOP SECRET
02 - TOP SECRET [redacted]
04 - SECRET
05 - SECRET [redacted]

22 - TOP SECRET CHESS [redacted]
23 - TOP SECRET CHESS [redacted]
24 - TOP SECRET CHESS RUFF [redacted]
25 - TOP SECRET CHESS RUFF [redacted]
25 - TOP SECRET CHESS RUFF [redacted]

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ORIGINATOR

ACDA - ARMS CONTROL AND DISARMAMENT AGENCY

NAVY - NAVY

AF - AIR FORCE

NPIC - NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

ARMY - ARMY

NSA - NATIONAL SECURITY AGENCY

[redacted]

NTPC - NATIONAL TECHNICAL PROCESSING CENTER

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CIA - CENTRAL INTELLIGENCE AGENCY

SAC - SAC (544th RTS)

DIA - DEFENSE INTELLIGENCE AGENCY

SAC-1 - SAC-1 (8th RTS)

GMAIC - GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE

SAC-2 - SAC-2 (3921 ST RTS)

COMMITTEE

SAC-C - SAC-C (15th RTS)

[redacted]

STL - SPACE TECHNOLOGY LABORATORY

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JOINT - JOINT (2 or more USIB members participating)

[redacted]

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NATO - NORTH ATLANTIC TREATY ORGANIZATION

USIB - UNITED STATES INTELLIGENCE BOARD

[redacted]

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EPF SUBJECT CATEGORIES

05 - AIR ACTIVITY

Airfields, seaplane stations, aircraft, storage, production, research, training, aerohydrodynamic vehicles, and air defense activity.

10 - GENERAL ACTIVITY

Complex studies, unidentified installations/equipment, and terrain or analyses, agriculture analyses.

13 - BIOLOGICAL/CHEMICAL WARFARE ACTIVITY

Research, production, testing, training, and storage.

15 - COMPREHENSIVE REPORTS

Mission readouts, summaries, and country or area studies.

25 - ELECTRONICS/COMMUNICATIONS ACTIVITY

Radar and radio installations/equipment, missile, air, naval related installations/equipment, production, research, testing.

30 - INDUSTRIAL ACTIVITY

Raw materials, basic processing, heavy and light industry, chemical plants, and power facilities. (For shipbuilding, see NAVAL. For nuclear power plants, see NUCLEAR.)

35 - MILITARY ACTIVITY

Ground force installations/equipment, production, testing, research, and repair.

40 - MISSILE & SPACE ACTIVITY

Sites, research, production, storage, and equipment.

55 - NUCLEAR ACTIVITY

Mining, production research, testing, storage, and nuclear power plants.

60 - OVERLAYS/PLOTS

Mission Coverage Plots, Mission Coverage Statistics, tracks, and annotated maps.

65 - RESEARCH AND DEVELOPMENT ACTIVITY

Technical publications and miscellaneous R&D installations.

75 - NAVAL ACTIVITY

Submarine bases, naval bases and air stations, shipyards, research, and equipment.

80 - STORAGE ACTIVITY (NON-MILITARY)

POL storage, agricultural storage, and industrial storage.

85 - TRANSPORT AND PIPELINE ACTIVITY

Road and rail activity, pipelines, and canal systems.

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AF PAR 533-79 08 MAR 79 [] SEC CLASS: 13 MSN: 0002P ACCN: S086R12 25X1

ELECTRONICS, SUUJI E RADAR CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO:

THIS REPORT PROVIDES AN ANALYSIS OF THE PHOTOGRAPH OF THE SUUJI E RADAR WHICH APPEARED IN THE CHINESE PERIODICAL TITLED AVIATION KNOWLEDGE HANG HUNG CHIH SHIH, 1978, #9.*

AF PAR 517-79 26 FEB 79 [] SEC CLASS: 13 MSN: 0005P ACCN: S086R13 25X1

SVERDLOVSK OPTICAL EQUIPMENT PLANT 217 UR 564900N 0603900E
WAC NO : BE/OBJ NO: NPIC NO : - 26-K2 25X1
IDHS CODE: EPF CAT : 30D COMIREX NO: 25X1

THIS REPORT PROVIDES A TABULATED LISTING SHOWING ROOF COVERAGE, FLOORSPACE AND BUILDING FUNCTION AT SVERDLOVSK OPTICAL EQUIPMENT PLANT 217. ASSOCIATED DRAWING 79D6507 PROVIDES A LAYOUT DRAWING OF THE MAIN PLANT.*

AF PAR 524-79 20 FEB 79 [] SEC CLASS: 13 MSN: 0016P ACCN: S086R14 25X1

YURYA ICBM HEADQUARTERS RDO RELAY/RADCOM XMTR UR 584400N 0493130E
WAC NO : BE/OBJ NO: NPIC NO : - 5-L1 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
YURYA ICBM HEADQUARTERS RADCOM RECEIVER STA UR 590615N 0491800E
WAC NO : BE/OBJ NO: NPIC NO : - 18-H8 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
VERKHNYAYA SALDA ICBM COMPLEX HQ BUNKERED UR 580215N 0602250E
WAC NO : BE/OBJ NO: NPIC NO : - 29-D6 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1
VERKHNYAYA SALDA MOBILE IRBM BASE 1 UR 580818N 0603213E
WAC NO : BE/OBJ NO: NPIC NO : - 29-E4 25X1
IDHS CODE: EPF CAT : 40B COMIREX NO: 25X1
SMORGON IRBM REGIMENTAL HQ RADCOM XMTR STA UR 542300N 0264000E
WAC NO : BE/OBJ NO: NPIC NO : - 182-C 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO: 25X1
SMORGON IRBM REGIMENTAL HQ RADIO RCVR ABND UR 543120N 0261720E
WAC NO : BE/OBJ NO: NPIC NO : - 68-A1 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO:
SMORGON IRBM REGIMENTAL COMMAND POST BUNKERED UR 543202N 0261747E
WAC NO : BE/OBJ NO: NPIC NO : - 68-A3 25X1
IDHS CODE: EPF CAT : 25C COMIREX NO:
NOVOSIBIRSK ICBM HQ RADCOM TRANSMITTER STA UR 550944N 0825615E

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WAC NO :	BE/OBJ NO:	NPIC NO :	- 7-F2	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
YURYA ICBM COMPLEX COMMAND POST BUNKERED		UR 590329N	0491658E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 1A-H9	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
YURYA MOBILE ICBM BASE 1		UR 590611N	0494531E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 1A-I1	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
YELSK MRBM REGIMENTAL HQ RADCOM RCVR BKR HARD		UR 514256N	0291224E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 42-C1	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		
YELSK MRBM REGIMENTAL COMMAND POST BKR SEARCH		UR 514654N	0291729E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 42-D2	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		
VERKHNYAYA SALDA ICBM HQ RADCOM TRANSMITTER		UR 575339N	0601106E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 17-E1	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
VERKHNYAYA SALDA ICBM HQ RECEIVER BKR HARD		UR 580426N	0602441E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 29-E1	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
NOVOSIBIRSK ICBM HQ RADCOM RECEIVER BKR HARD		UR 551621N	0825853E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 7-S1	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
NOVOSIBIRSK ICBM COMPLEX COMMAND POST BKR		UR 550918N	0825700E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 7-F6	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
MOZYR MRBM DIVISION HQ RADCOM TRANSMITTER STA		UR 520542N	0291658E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 110-H	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
MOZYR MRBM DIVISION HQ RADCOM RCVR BKR HARD		UR 520424N	0290645E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 110-I	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		
MOZYR MRBM DIVISION COMMAND POST BUNKERED		UR 520428N	0290641E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 110-I2	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
KOZHANOVICHI MRBM REGIMENTAL HQ RADCOM XMTR		UR 521602N	0280521E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 209	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
KONKOVICHI MRBM REGIMENTAL COMMAND POST BKR		UR 521036N	0283441E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 137-A4	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		
DROVYANAYA ICBM HQ RADCOM XMTR STATION BKR		UR 513741N	1133859E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 53-K6	25X1

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IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
UROVYANAYA ICBM	HQ RADCOM RECEIVER BKR	HARD	UR	513141N 1130356E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 53-D	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		
KOZHANOVICHI MRBM	REGIMENTAL HQ RADCOM RCVR		UR	521100N 0274800E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 156-H	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		
KONKOVICHI MRBM	REGIMENTAL HQ RECEIVER BKR		UR	521049N 0283613E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 137-A1	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
ELECTRONICS	COMMAND CNTRL COMMO SS-20 ASSOC		UR		
WAC NO :		BE/OBJ NO:	NPIC NO :	-	
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		
GLADKAYA ICBM	HQ RADCOM XMTR	STA COMD CONTROL	UR	560927N 0930036E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-A4	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
GLADKAYA ICBM	HQ RADCOM RCVR	STA COMD CONTROL	UR	561544N 0921645E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-Y	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
GLADKAYA ICBM	COMPLEX CP BKR	COMD CNTRL FACS	UR	561419N 0921918E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-Y1	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
GLADKAYA ICBM	SITE 3 DISMANTLED		UR	562027N 0921956E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-L3	25X1
IDHS CODE:		EPF CAT : 40A	COMIREX NO:		25X1
GLADKAYA ICBM	SITE 2 DEACTIVATED		UR	562459N 0922702E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-L2	25X1
IDHS CODE:		EPF CAT : 40A	COMIREX NO:		25X1
KONKOVICHI MOBILE	IRBM BASE	COMMAND CNTRL FAC	UR	521040N 0283445E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 137-A5	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
NOVOSIBIRSK MOBILE	IRBM BASE	2 COMMAND CNTRL	UR	552215N 0831401E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-K	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
NOVOSIBIRSK MOBILE	IRBM BASE	1 COMD CNTRL FAC	UR	551904N 0831001E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 7-K1	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
SMORGON MOBILE	IRBM BASE	1 COMMAND CNTRL FACS	UR	543151N 0261723E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 68-A6	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1
POSTAVY MOBILE	IRBM BASE	COMMAND CONTROL FACS	UR	550941N 0265346E	
WAC NO :		BE/OBJ NO:	NPIC NO :	- 58-D3	25X1
IDHS CODE:		EPF CAT : 25C	COMIREX NO:		25X1

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KOZHANOVICHI MOBILE IRBM BASE COMD CNTRL FAC	UR	521127N 0274843E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 156-B3
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
MOZYR MOBILE IRBM BASE + TRNG FAC COMD CNTRL	UR	520210N 0291108E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 110-E1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
DROVYANAYA MOBILE IRBM BASE 3 COMD CNTRL FAC	UR	512558N 1130305E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 53-A8
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
DROVYANAYA MOBILE IRBM BASE 2 COMD CNTRL FAC	UR	512021N 1130114E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 53-N
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
DROVYANAYA MOBILE IRBM BASE 1 COMD CNTRL FAC	UR	512718N 1130402E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 53-M1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

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THIS REPORT GIVES AN ANALYSIS OF ALL MOBILE GUIDANCE-RELATED FACILITIES SEEN AT DROVYANAYA MOBILE IRBM BASES 1, 2, AND 3; MOZYR MOBILE IRBM BASE/TRAINING FACILITY; AND NOVOSIBIRSK MOBILE IRBM BASES 1 AND 2 AND ANY NEW GUIDANCE-RELATED FACILITIES SEEN AT OTHER MOBILE SS-20 BASES. A SEARCH WAS ALSO DONE FOR ALL MOBILE/SS-20 BASES AND THE DIVISION COMMAND/CONTROL FACILITIES FOR ANY COMMUNICATIONS VEHICLES/EQUIPMENTS ASSOCIATED WITH THE SS-20 SYSTEM.*

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NPIC SR SR015-79 MAR 79 [] SEC CLASS: 25D MSN: 0003P ACCN: S086820

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ELECTRONICS, LIBERTON HF/DF FACILITIES KGB	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 25A	COMIREX NO:
ELECTRONICS, LIBERTON HF/DF FACILITIES KGB	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 25D	COMIREX NO:
ELECTRONICS, LIBERTON HF/DF FACILITIES KGB	BU
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 25A	COMIREX NO:
ELECTRONICS, LIBERTON HF/DF FACILITIES KGB	BU
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 25D	COMIREX NO:
ELECTRONICS, LIBERTON HF/DF FACILITIES KGB	CZ
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 25A	COMIREX NO:
ELECTRONICS, LIBERTON HF/DF FACILITIES KGB	CZ
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 25D	COMIREX NO:

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FORTY-TWO HIGH-FREQUENCY DIRECTION-FINDING (HF/DF) FACILITIES IN THE USSR AND SOVIET BLOC COUNTRIES, REPORTED BY NSA TO BE LIBERTON STATIONS, WERE PHOTOGRAPHICALLY ANALYZED TO DETERMINE WHETHER THEY CONTAINED THE PREVIOUSLY ESTABLISHED SIGNATURE FOR A LIBERTON STATION.

CIA IRP IS10028K-79 FEB 79 [] SEC CLASS: 13 MSN: 0006P ACCN: S086821

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SHANGHAI EXPERIMENTAL CHEMICAL PLT FTLZR TECH	CH	3114 N 12128 E
WAC NO : []	BE/OBJ NO:	NPIC NO : -
IDHS CODE: []	EPF CAT : 30F	COMIREX NO:

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SATELLITE IMAGERY INDICATES THAT THE CHINESE ARE ATTEMPTING TO DUPLICATE THE AMMONIA AND UREA FERTILIZER TECHNOLOGY WHICH THEY IMPORTED DURING THE 1970S FROM THE US-DUTCH FIRM, PULLMAN KELLOGG, IN AN EXPERIMENTAL CHEMICAL PLANT AT SHANGHAI. MASTERY OF THIS ADVANCED HIGH-CAPACITY TECHNOLOGY WOULD PROVIDE THE CHINESE WITH THE CAPABILITY TO SUPPORT THEIR AGRICULTURAL PROGRAMS WITH A LARGE QUANTITY OF UREA, THE MOST NITROGEN-RICH FERTILIZER AVAILABLE. THE PLANT AT SHANGHAI IS VERY SIMILAR TO IMPORTED US-DUTCH PLANTS IN THE DESIGN, SIZE, AND ARRANGEMENT OF MOST OF ITS EQUIPMENT AND IN THE OVERALL PLANT LAYOUT. THE

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CHINESE APPEAR TO HAVE MADE SOME MODIFICATIONS IN DESIGN, HOWEVER, AS INDICATED BY THE EXTERNAL APPEARANCE OF SOME PIECES OF EQUIPMENT AND THE ABSENCE OF OTHERS.

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CIA IRP IS10051K-79 MAR 79 [] SEC CLASS: 13 MSN: 0019F ACCN: S086823 25X1

TYURATAM MTC SPACE SITE U1/2	SL-12/13 LAUNCH	UR	460214N 0630212E	
WAC NO :	BE/OBJ NO: []	NPIC NO :	- 6-Y7	25X1
IDHS CODE:	EPF CAT : 40H	COMIREX NO:	[]	25X1
TYURATAM MTC SPACE SITE 63/4	SL-12/13 LAUNCH	UR	460423N 0625849E	
WAC NO :	BE/OBJ NO: []	NPIC NO :	- 6-E5	25X1
IDHS CODE:	EPF CAT : 40H	COMIREX NO:	[]	25X1

THIS REPORT PROVIDES A DESCRIPTION OF THE CHECKOUT ACTIVITY WHICH OCCURS AT THE LAUNCH FACILITIES PRIOR

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TO THE LAUNCH OF AN SL-12/13. TABLES IN THE REPORT SHOW THE TYPICAL CHECKOUT SEQUENCE AT SL-12/13 LAUNCH FACILITIES AND THE CHRONOLOGY OF ACTUAL SL-12/13 LAUNCHES FOR THE PERIOD JANUARY 1973 TO DECEMBER 1978 ALONG WITH THE ASSOCIATED CHECKOUT ACTIVITY FOR THESE LAUNCHES. REPRESENTATIVE PHOTOGRAPHS OF THE VARIOUS ACTIVITIES IN THE CHECKOUT SEQUENCE ARE ALSO PROVIDED.

IT SHOULD BE NOTED THAT THE LEVEL OF PROPELLANT RAILCAR ACTIVITY AT AN SL-12/13 LAUNCH SITE MAY ALSO BE INDICATIVE OF AN UPCOMING LAUNCH. THIS TYPE OF ACTIVITY, HOWEVER, IS NOT NEARLY AS PREDICTABLE AS LAUNCH FACILITIES CHECKOUT ACTIVITIES AND WAS, THEREFORE, NOT ADDRESSED IN THIS REPORT.

CIA BIIR RCS13-0004-79 MAR 79 [] SEC CLASS: 13 MSN: [] 0010P ACCN: 5086824 25X1

INDUSTRY, VINYLON PLANTS

WAC NO :	BE/OBJ NO:	CH	NPIC NO :	-	
IDHS CODE:	EPF CAT :		COMIREX NO:		
PEICHING POLYVINYL ALCOHOL PLANT		CH	395311N	1162913E	
WAC NO :	BE/OBJ NO:		NPIC NO :	-	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		
PEICHING SYNTHETIC FIBER PLANT		CH	401250N	1163840E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 46-A	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
TACHIANGKOU VINYLON PLANT		CH	275200N	1102230E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 12-C1	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
CHINHSINGHSIEN VINYLON PLANT		CH	380140N	1140640E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 73-A3	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
CHINGCHEN VINYLON PLANT		CH	263210N	1062900E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 5-A3	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
CHINSHANWEI VINYLON PLANT		CH	304225N	1211900E	
WAC NO :	BE/OBJ NO:		NPIC NO :	-	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		
LANCHOU VINYLON PLANT		CH	361000N	1032700E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 3-23	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
LOPING VINYLON PLANT		CH	285503N	1170726E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 72-A	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
ISHAN VINYLON PLANT		CH	243100N	1083400E	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 63-A2	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1
YONGAN POLYVINYL ALCOHOL PLANT		CH	255945N	1171815F	
WAC NO :	BE/OBJ NO:		NPIC NO :	- 52-R	25X1
IDHS CODE:	EPF CAT :		COMIREX NO:		25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

CHANGSHOU VINYLON PLANT

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 30F

CH 294730N 1070040E
NPIC NO : - 95-A1
COMIREX NO:

25X1

CHANI POLYVINYL ALCOHOL PLANT

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 30F

CH 254515N 1035415E
NPIC NO : - 66-A
COMIREX NO: []

25X1

CHAOHSIEN VINYLON PLANT

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 30F

CH 313850N 1175210E
NPIC NO : - 92-B6
COMIREX NO: []

25X1

CHAOCHENG VINYLON PLANT

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 30F

CH 362230N 1114220E
NPIC NO : - 67-B
COMIREX NO: []

25X1

25X1

THE CHINESE HAVE APPARENTLY COMPLETED A PROGRAM TO CONSTRUCT A SERIES OF PLANTS TO PRODUCE THE SYNTHETIC FIBER VINYLON. THIRTEEN SUCH PLANTS -- ALL OF WHICH WERE COMPLETED BY LATE 1977 -- HAVE BEEN IDENTIFIED TO DATE. THREE OF THESE WERE IMPORTED FROM JAPAN; THE OTHER 10 APPEAR TO BE CHINESE COPIES BASED ON THE JAPANESE TECHNOLOGY. BASED ON THE REPORTED CAPACITIES OF FIVE OF THE PLANTS AND A SIZE COMPARISON OF THOSE FIVE WITH THE OTHER EIGHT PLANTS, IT IS ESTIMATED THAT THE CHINESE HAVE A CAPACITY TO PRODUCE ABOUT 200,000 METRIC TONS OF VINYLON ANNUALLY. THIS VINYLON PRODUCTION HELPS TO REDUCE THE DEMANDS ON AGRICULTURAL LAND FOR NATURAL FIBERS, SUCH AS WOOL AND COTTON. THE VINYLON IS USED BY THE CHINESE TO MANUFACTURE SUCH ITEMS AS PROTECTIVE CLOTHING, RAINWEAR, FILTER CLOTHS, UNIFORMS, AND FISHING NETS. THE VINYLON PLANT CONSTRUCTION PROGRAM REFLECTS CHINA'S CONTINUING EFFORTS TO EXPAND ITS SYNTHETIC FIBERS INDUSTRY BY IMPORTING STATE-OF-THE-ART TECHNOLOGY FROM WESTERN FIRMS. SINCE 1973, THE CHINESE HAVE OBTAINED 10 PETROLEUM-BASED PLANTS FOR THE PRODUCTION OF VARIOUS OTHER SYNTHETIC FIBERS, INCLUDING NYLON, POLYESTER, AND ACRYLICS. THIS REPORT BRIEFLY DISCUSSES THE BACKGROUND AND DEVELOPMENT OF THE CHINESE VINYLON INDUSTRY AND PROVIDES A TABULAR SUMMARY OF DATA ON THE 13 VINYLON PLANTS.

DIA IIM 5B3-71796-79 05 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S086825 25X1

GOSTOMEL AIRFIELD LRA AIRCRAFT SUPPORT CPBL

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 05A

UR 503601N 0301143E
NPIC NO : - 17
COMIREX NO: []

25X1

25X1

25X1

DIA IIM 5B3-71806-79 06 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S086827 25X1

POCHEP AIRFIELD LRA AIRCRAFT SUPPORT CPBL

WAC NO : []

BE/OBJ NO: []

UR 525555N 0332400E
NPIC NO : - 118-A

25X1

1291
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

225X1

25X1

DIA IIM 5B3-71823-79 09 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S086829

25X1

KALININO AIRFIELD LRA SUPPORT CAPABILITY UR 410630N 0441600E
WAC NO : [] BE/OBJ NO: -08790 NPIC NO : -
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

DIA IIM 5B3-71778-79 09 APR 79 [] SEC CLASS: 14B MSN: 0025P ACCN: S086830

25X1

NUCLEAR, RAILCARS SOLID MOTOR PROD PLTS ASSOC UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 55 COMIREX NO:
MISSILES, SOLID MOTOR PROD PLTS RAILCARS NUC UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 40E COMIREX NO:

DIA IIM 5B3-71811-79 09 APR 79 [] SEC CLASS: 13 MSN: [] 0002P ACCN: S086831

25X1

KOCHUBEYEVKA AIRFIELD NO SIGNIFICANT CHANGE UR 494444N 0350132E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 70-A
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

DIA IIM 5B3-71822-79 09 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S086832

25X1

ENGELS/LEBEDOVO AIRFIELD LRA SUPPORT CPBL UR 511712N 0461355E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 6-C
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

DIA IIM 5B3-71801-79 09 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S086833

25X1

DOLINSKAYA AIRFIELD LRA SUPPORT CAPABILITY UR 480130N 0324154E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 135
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

25X1

1292
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

RIGA AIRFIELD WEST MOSS VU-126 SEARCH UR 565525N 0235817E
WAC NO : BE/OBJ NO: NPIC NO : - 63-C
IUHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1
25X1

DIA IIM 5B1-71844-79 09 APR 79 SEC CLASS: 14 MSN: 0002P ACCN: S086836 25X1

ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I UR 431211N 0763603E
WAC NO : BE/OBJ NO: NPIC NO : - 1-T2
IUHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

DIA IIM 5B1-71815-79 09 APR 79 SEC CLASS: 14 MSN: 0002P ACCN: S086837 25X1

ALMA ATA COMMAND CONTROL RADCOM FACIL BKR U/I UR 430910N 0762330E
WAC NO : BE/OBJ NO: NPIC NO : - 219-B
IUHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

DIA IIM 5B1-71825-79 09 APR 79 SEC CLASS: 14B MSN: 0003P ACCN: S086838 25X1

VOLOGDA AMMUNITION DEPOT DA1 UR 591410N 0395530E
WAC NO : BE/OBJ NO: NPIC NO : - 66-J7
IUHS CODE: EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-71812-79 10 APR 79 SEC CLASS: 14 MSN: 0002P ACCN: S086839 25X1

MOSKVA SCIENTIFIC RESEARCH INSTITUTE 42 UR 554227N 0374354E
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 65A COMIREX NO:

25X1

DIA IIM 5B1-71797-79 09 APR 79 SEC CLASS: 14B MSN: 0002P ACCN: S086842 25X1

BOBRUYSK ORDNANCE DEPOT MNE D01 UR 531210N 0291630E

1293
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

NPIC NO : - 11-B4
COMIREX NO:

25X1
25X1

DIA IIM 563-71829-79 11 APR 79 SEC CLASS: 13 MSN: 0001P

ACCN: 5086843

25X1

BELAYA TSERKOV AIRFIELD MOSS TU-126

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05A

UR 494749N 0300135E
NPIC NO : - 2-A
COMIREX NO:

25X1
25X1

25X1

1294
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

CIA B11R RCS13-0003-79

MAR 79

SEC CLASS: 13

MSN:

0049P

ACCN: S086R71

25X1

1304
TOP SECRET CHESS RUFF

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

TOP SECRET CHESS RUFF

25X1

INDUSTRY, SYNTHETIC RUBBER PRODUCTION

WAC NO :	BE/OBJ NO:	NPIC NO :	-	
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		
CHAYKOVSKIY SYNTHETIC RUBBER PLANT		UR 564220N	0535530E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 13-C	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
KAZAN SYNTHETIC RUBBER PLANT	KIROV SK4	UR 554504N	0490712E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 14-C	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		
KRASNOYARSK SYNTHETIC RUBBER PLANT		UR 560111N	0930111E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
NIZHNEKAMSK PETROCHEMICAL COMBINE		UR 553627N	0515524E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 74-A	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
NOVOKUYBYSHEV SYNTHETIC RUBBER PLANT		UR 530430N	0525200E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		
OMSK SYNTHETIC RUBBER PLANT		UR 550423N	0731653E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 5-M	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		
STERLITAMAK SYNTHETIC RUBBER PLANT		UR 534019N	0555706E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
SUMGAI SYNTHETIC RUBBER PLANT SK7		UR 403622N	0493720E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		
TEMIR TAU SYNTHETIC RUBBER PLANT KARAGANDA		UR 500435N	0725512E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 6-B	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
TOLYATTI SYNTHETIC RUBBER PLANT		UR 533216N	0492705E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
VOLGOGRAD SYNTHETIC RUBBER COMBINE VOLZHSKIY		UR 484908N	0445035E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 16-P	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
VORONEZH SYNTHETIC RUBBER PLANT		UR 513743N	0391439E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
YAROSLAVL SYNTHETIC RUBBER PLANT		UR 573800N	0395330E	
WAC NO :	BE/OBJ NO:	NPIC NO :	-	25X1
IDHS CODE:	EPF CAT : 30F	COMIREX NO:		25X1
YEFREMOV SYNTHETIC RUBBER PLANT LEBEDEV SK3		UR 530939N	0380643E	

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 30F COMIREX NO:
 YEREVAN SYNTHETIC RUBBER + CHEMICAL PLANT 741 UR 400748N 0442953E
 WAC NO : BE/OBJ NO: NPIC NO : - 68-C
 IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1
25X1

25X1
25X1

THIS REPORT PRESENTS THE FINDINGS OF A COMPREHENSIVE ANALYSIS OF PHOTOGRAPHY SUPPORTED BY THE AVAILABLE COLLATERAL INFORMATION ON THE SOVIET SYNTHETIC RUBBER INDUSTRY. CAPACITY ESTIMATES GIVEN ARE FOR 1977. CAPACITY ESTIMATES FOR 1978 ARE NOT GIVEN BECAUSE THE AVAILABLE PHOTOGRAPHY COVERED ONLY THE PERIOD THROUGH EARLY-TO-MID 1978. ALL OTHER INFORMATION IS BASED ON PHOTOGRAPHIC COVERAGE THROUGH AUGUST 1978. DUE TO THE STRATEGIC NATURE OF THE INDUSTRY, THE SOVIETS HAVE WRITTEN VERY LITTLE ON PLANT CAPACITIES. THUS, OVERHEAD PHOTOGRAPHY WAS PARTICULARLY IMPORTANT AS A SOURCE OF INFORMATION. FIFTEEN PLANTS HAVE BEEN IDENTIFIED ON PHOTOGRAPHY. FOURTEEN OF THESE ARE PRODUCING AND ONE IS UNDER CONSTRUCTION.

NPIC SR SR017-79 MAR 79 SEC CLASS: 14D MSN: 0005P ACCN: S086872 25X1

PARACEL ISLANDS MILITARY ACTIVITY PF 1630 N 11215 E
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1

THIS REPORT DESCRIBES THE CHINESE MILITARY FORCES BUILDUP IN THE PARACEL ISLANDS. THE BUILDUP CONSISTS OF THE INTRODUCTION OF MISSILE-CARRYING PATROL BOATS, HYDROFOIL TORPEDO BOATS, FIELD ARTILLERY PIECES, AND ADDITIONAL RADAR EQUIPMENT.*

NPIC PIR PIR018-79 MAR 79 SEC CLASS: 14D MSN: 0010P ACCN: S086873 25X1

ELECTRONICS, TWIN PLATE/TWIN PLATE MODIF MG
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25 COMIREX NO:
 ELECTRONICS, TWIN PLATE/TWIN PLATE MODIF UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 25 COMIREX NO:

MODIFIED TWIN PLATE ANTENNA SETS HAVE BEEN OBSERVED IN NONDIVISIONAL SIGNAL UNITS AT SIX INSTALLATIONS IN THE FAR EAST AND TRANSBAIKAL MILITARY DISTRICTS OF THE SOVIET UNION AND MONGOLIA. THESE MODIFIED TWIN PLATE SETS ARE THE ONLY ONES THAT HAVE BEEN IDENTIFIED OUTSIDE EAST GERMANY. THE FIRST ONES WERE IDENTIFIED IN THE FIELD ON ATTACHE PHOTOGRAPHY TAKEN IN EAST GERMANY IN MID-1978.

IN THE FAR EAST MILITARY DISTRICT, MODIFIED TWIN PLATE SETS HAVE BEEN IDENTIFIED AT KOMSOMOLSK-NA-AMURE ARMY BARRACKS; SERGEYEVKA ARMY BARRACKS AL-2, AND BELOGORSK ARMY BARRACKS AL-3. IN THE TRANSBAIKAL MILITARY DISTRICT, THE MODIFIED ANTENNA SETS WERE IDENTIFIED AT ULAN-UDE 9TH RVGK SIGNAL BORDER AL-3, AND SHIRLOVAYA GORA ARMY BARRACKS AL-1. IN MONGOLIA THEY WERE IDENTIFIED AT ULAAN BAATAR ARMY BARRACKS AL-1.

1306
TOP SECRET CHESS RUFF

25X1
25X1

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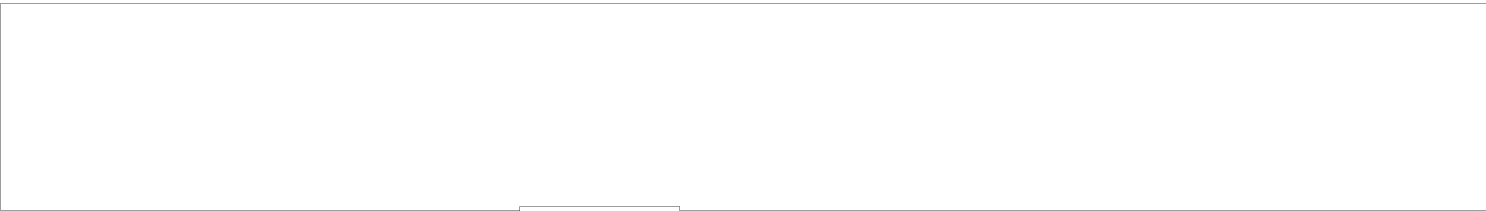
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TOP SECRET CHESS RUFF



25X1
25X1



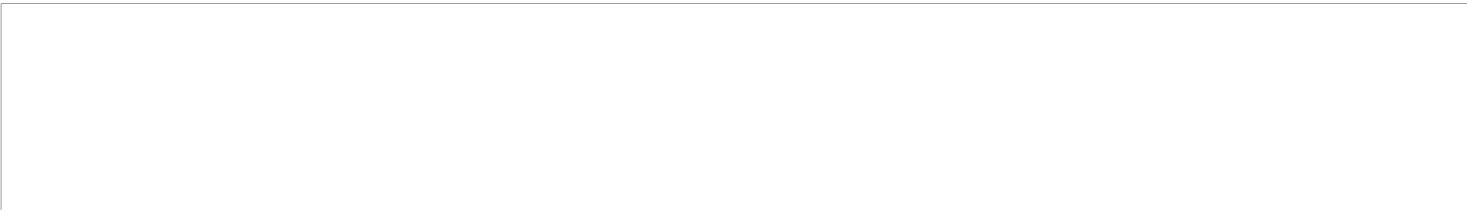
25X1

AF ENDR D6515-1-76 15 MAR 79 SEC CLASS: 13 MSN: 0001P ACCN: S086912 25X1

MOSKVA MISSILE/SPACE PRPLN DEV CTR TEST AREA UR 555420N 0372651E
WAC NO : BE/OBJ NO: NPIC NO : - 48
IDHS CODE: EPF CAT : 40E COMIREX NO:
MOSKVA MISSILE/SPACE PRPLN DEV CTR TEST AREA UR 555420N 0372651E
WAC NO : BE/OBJ NO: NPIC NO : - 48
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 76-651 AND 79-529.*



25X1

AF ENDR C6511-79 16 FEB 79 SEC CLASS: 13 MSN: 0001P ACCN: S086914 25X1

MOSKVA NAVAL MISSILE DESIGN BUR KARTUKOV OKB UR 555020N 0372900E
WAC NO : BE/OBJ NO: NPIC NO : - 52-C
IDHS CODE: EPF CAT : 40G COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-528.*



25X1

TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 65A	COMIREX NO: []
GOLOVINO LASER DEV + TEST CTR TECH OPS AREA	UR 555830N 0401818E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 157
IUHS CODE: []	EPF CAT : 35G	COMIREX NO: []

25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-555 AND 79-532.*

25X1

1316
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

AF ENDR C6512-2-74 23 FEB 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S086923 25X1

MOSKVA GUIDED MISSILE R+D PLANT KHIMKI 301 UR 555350N 0372556E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 100 25X1
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted] 25X1

THIS DRAWING SUPPLEMENTS PAR 79-530.*

AF ENDR C6513-2-74 09 MAR 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S086924 25X1

MOSKVA GUIDED MISSILE R+D PLT 301 TEST AREA UR 555350N 0372556E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 100 25X1
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted] 25X1

THIS DRAWING SUPPLEMENTS PAR 79-530.*

AF ENDR B3502-79 15 MAR 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S086925 25X1

MOSKVA GUIDED MISSILE R+D PLT 301 TEST STAND UR 555350N 0372556E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 100 25X1
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted] 25X1

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1
ZSA

THIS DRAWING SUPPLEMENTS PAR 79-530.*

AF	ENDR	D6519-2-75	09 MAR 79	[]	SEC CLASS: 13	MSN:	0001P	ACCN: S086926	25X1
		MOSKVA SCIENTIFIC RESEARCH INST MACHINE BLDG			UR	555130N	0373630E		
		WAC NO :		BE/OBJ NO: []	NPIC NO :	-	45-B2		25X1
		IDHS CODE: []		EPF CAT : 65A	COMIREX NO:	[]			25X1

THIS DRAWING SUPPLEMENTS PARS 77-554 AND 79-536.*

AF	ENDR	E4523-2-79	16 MAR 79	[]	SEC CLASS: 13	MSN:	[]	0001P	ACCN: S086927	25X1
		MISSILES, CSS-3 LAUNCHER			CH					
		WAC NO :		BE/OBJ NO:	NPIC NO :	-				
		IDHS CODE:		EPF CAT : 40A	COMIREX NO:					

THIS DRAWING SUPPLEMENTS PARS 75-590 AND 77-506.*

AF	ENDR	D6508-6-72	18 JAN 79	[]	SEC CLASS: 13	MSN:	0001P	ACCN: S086928	25X1
		TYURATAM MTC RANGEHEAD TRACKING FACILITY			UR	454230N	0632020E		
		WAC NO :		BE/OBJ NO: []	NPIC NO :	-	20-B1		25X1
		IDHS CODE: []		EPF CAT : 25C	COMIREX NO:	[]			25X1

THIS DRAWING SUPPLEMENTS PARS 72-504, 72-813, 74-641, 75-610, AND 79-512.*

AF	ENDR	C6506-79	30 JAN 79	[]	SEC CLASS: 13	MSN:	0001P	ACCN: S086929	25X1
		DODONOVO MISSILE + SPACE COMPONENTS PLANT			UR	561534N	0933147E		
		WAC NO :		BE/OBJ NO: []	NPIC NO :	-	3-E4		25X1
		IDHS CODE: []		EPF CAT : 40E	COMIREX NO:	[]			25X1
		DODONOVO MISSILE + SPACE COMPONENTS PLANT			UR	561534N	0933147E		
		WAC NO :		BE/OBJ NO: []	NPIC NO :	-	3-E4		25X1
		IDHS CODE: []		EPF CAT : 40H	COMIREX NO:	[]			25X1

THIS DRAWING SUPPLEMENTS PAR 79-516.*

AF	ENDR	D6537-1-75	16 FEB 79	[]	SEC CLASS: 13	MSN:	[]	0001P	ACCN: S086930	25X1
		SEMIPALATINSK NWPG PNUTS FACILITY OPS AREA			UR	501101N	0782217E			
		WAC NO :		BE/OBJ NO: []	NPIC NO :	-	33-H		25X1	
		IDHS CODE: []		EPF CAT : 55A	COMIREX NO:	[]			25X1	

1316
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 75-646 AND 79-522.*

AF ENDR D6536-1-75 31 FEB 79 SEC CLASS: 13 MSN: 0001P

ACCN: S086931 25X1

SEMIPALATINSK NWPG PNUTS FACILITY

UR 501101N 0782217E

WAC NO :

BE/OBJ NO:

NPIC NO : - 33-H

25X1

IDHS CODE:

EPF CAT : 55A

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PARS 75-646 AND 79-522.*

AF ENDR C3505-1-76 16 FEB 79 SEC CLASS: 13 MSN: 0001P

ACCN: S086932 25X1

SEMIPALATINSK NWPG PNUTS FACILITY BUILDING D

UR 501101N 0782217E

WAC NO :

BE/OBJ NO:

NPIC NO : - 33-H

25X1

IDHS CODE:

EPF CAT : 55A

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PARS 75-646 AND 79-522.*

AF ENDR C4505-1-76 16 FEB 79 SEC CLASS: 13 MSN: 0001P

ACCN: S086933 25X1

SEMIPALATINSK NWPG PNUTS FACILITY BUILDING D

UR 501101N 0782217E

WAC NO :

BE/OBJ NO:

NPIC NO : - 33-H

25X1

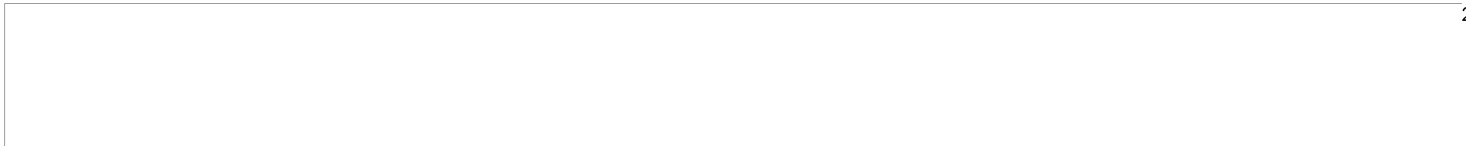
IDHS CODE:

EPF CAT : 55A

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PARS 75-646 AND 79-522.*



25X1

AF ENDR D6596-6-70 18 JAN 79 SEC CLASS: 13 MSN: 0001P

ACCN: S086935 25X1

PLESETSK MTC RANGEHEAD TRACKING FAC BOW/ARROW

UR 624645N 0402010E

WAC NO :

BE/OBJ NO:

NPIC NO : - 27-M3

25X1

IDHS CODE:

EPF CAT : 25C

COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PARS 70-765, 72-813, 74-641, 75-610, 77-651, AND 79-512.*

AF ENDR B1503-79 16 FEB 79 SEC CLASS: 13 MSN: 0001P

ACCN: S086936 25X1

1319

TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF [redacted]

25X1

25X1

KURUMOLCH ROCKET ENGINE TEST FAC TWO-TONE TANK UR 533215N 0495116E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 3B
IDHS CODE: [redacted] EPF CAT : 40E COMIREX NO: [redacted]

25X1/5X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-522.*

AF ENDR 06537-6-67 18 JAN 79 [redacted] SEC CLASS: 13 MSN: 0001P ACCN: 5086937 25X1

KAPUSTIN YAR MTC RANGEHEAD TRKG FAC BOW/ARROW UR 483858N 0454538E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 10-D3
IDHS CODE: [redacted] EPF CAT : 25C COMIREX NO: [redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 67-580, 72-813, 74-641, 75-610, 77-651, AND 79-512.*

AF ENDR 04507-79 02 FEB 79 [redacted] SEC CLASS: 13 MSN: 0001P ACCN: 5086938 25X1

ANHSIEN AEROSPACE R+D FACILITY WIND TUNNEL CH 314221N 1042832E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 116
IDHS CODE: [redacted] EPF CAT : 40H COMIREX NO: [redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-521.*

AF ENDR E1002-79 23 FEB 79 SEC CLASS: 05 MSN: 0001P ACCN: 5086939

AIRCRAFT, BACKFIRE B UR
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : -
IDHS CODE: [redacted] EPF CAT : 05D COMIREX NO:

AF ENDR D1006-79 08 MAR 79 SEC CLASS: 00B MSN: 0001P ACCN: 5086940

AIRCRAFT, FANTAN A F-9 CH
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : -
IDHS CODE: [redacted] EPF CAT : 05D COMIREX NO:

AF ENDR D2001-79 23 FEB 79 SEC CLASS: 05 MSN: 0001P ACCN: 5086941

AIRCRAFT, BACKFIRE B FUSELAGE UR
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : -
IDHS CODE: [redacted] EPF CAT : 05D COMIREX NO:

AF ENDR E2002-79 06 MAR 79 SEC CLASS: 07 MSN: 0001P ACCN: 5086942

1320
TOP SECRET CHESS RUFF [redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

AIRCRAFT, FLOGGER G MIG-23 FUSELAGE
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 05D
UR
NPIC NO : -
COMIREX NO:

AF ENDR C1007-79 01 MAR 79 SEC CLASS: 04 MSN: 0001P ACCN: S086943

AIRCRAFT, FOXBAT B/D MIG-25 INLET/ANT MODIFS
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 05D
UR
NPIC NO : -
COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWING 75E1005/1.*
AF ENDR D1005-79 02 MAR 79 SEC CLASS: 07 MSN: 0001P ACCN: S086944

MISSILES, AA-2D MODIFIED
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40J
UR
NPIC NO : -
COMIREX NO:

AF PAR 544-79 21 MAR 79 SEC CLASS: 13 MSN: 0002P ACCN: S086945 25X1

MINLO SSM FIELD TRAINING POSITION
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40
CH 380335N 1005802E
NPIC NO : - 17
COMIREX NO:

THIS REPORT UPDATES PAR 76-540.*

AF PAR 556-79 26 MAR 79 SEC CLASS: 13 MSN: 0002P ACCN: S086946 25X1

TUNGTAO ICBM COMPLEX COMMO FAC/EQUIP NEW SRCH
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 25C
CH 261430N 1095358E
NPIC NO : -
COMIREX NO:

AF PAR 546-79 21 MAR 79 SEC CLASS: 13 MSN: 0002P ACCN: S086947 25X1

LIUCHINGKOU SSM COMPLEX
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40
CH 380835N 1000625E
NPIC NO : - 36-C
COMIREX NO:

A SEARCH OF LIU-CHING-KOU MISSILE LAUNCH COMPLEX FOR ANY NEW COMMUNICATIONS FACILITIES OR EQUIPMENT,
BEGINNING IN JANUARY 1976, PROVIDED NEGATIVE RESULTS.*

AF PAR 530-79 21 MAR 79 SEC CLASS: 13 MSN: 0033P ACCN: S086948 25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

MOSKVA GUIDED MISSILE R+D PLANT KHIMKI 301 UR 555350N 0372556E
WAC NO : BE/OBJ NO: NPIC NO : - 100
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS REPORT AND DRAWINGS 74C6512/2, 74C6513/2 AND 79B3502 PROVIDE A COMPLETE CHRONOLOGY AND FUNCTIONAL ANALYSIS OF MOSKVA GUIDED MISSILE RESEARCH AND DEVELOPMENT PLANT KHIMKI 301, THE UNIDENTIFIED DEVELOPMENT AND SUPPORT AREA ADJACENT, AND THE ASSOCIATED TEST AREA OF PLANT 301. THE FOLLOWING PHOTO ANALYSIS REPORTS OR MAJOR PARAGRAPHS ARE SUPERSEDED: 77-632; 74-580; 78-709 PARAGRAPH 2C AND D; 79-518 PARAGRAPH 2D(7) (A) AND 2E(9) (A); 77-733 PARAGRAPH 2D(6) AND 2E (9).*

AF PAR 536-79 21 MAR 79 SEC CLASS: 13 MSN: 0003P

ACCN: S086949

25X1

MOSKVA SCIENTIFIC RESEAKCH INST MACHINE BLDG UR 555130N 0373630E
WAC NO : BE/OBJ NO: NPIC NO : - 45-B2
IDHS CODE: EPF CAT : 65A COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF MOSKVA SCIENTIFIC RESEARCH INSTITUTE OF MACHINE BUILDING. THIS REPORT SUPPLEMENTS PAR 77-554, AND SUPERSEDES PARA D2(11) (A), PAR 79-518; PARA 2D(10) (A), PAR 77-733; AND PARA 2D(10) (A), PAR 77-567. ASSOCIATED DRAWING 75D6519/2 SUPPLEMENTS THIS REPORT.*

AF PAR 547-79 21 MAR 79 SEC CLASS: 13 MSN: 0002P

ACCN: S086950

25X1

LOYANG/LONING SSM FACILITY SEARCH CH 3425 N 11150 E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1

A SEARCH OF THE AREA BETWEEN LO-YANG AND LO-NING IN THE PEOPLES REPUBLIC OF CHINA (PRC) WAS MADE FOR EVIDENCE OF RAIL OFF-LOAD POINTS WHOSE CONSTRUCTION WAS COINCIDENT WITH THE CONSTRUCTION OF THE LO-NING CSS-X-4 MISSILE LAUNCH SILOS. NO OFF-LOAD FACILITIES OR CSS-X-4 RELATED AREAS OR STRUCTURES WERE OBSERVED.*

25X1

1322
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 531-79 08 MAR 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S086956 25X1

WANGFAN RADIO RELAY STATION		CH 341730N 1115030E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 137
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
TELINGHA SSM RADCOM STATION BUNKER HARD PROB		CH 372726N 0972348E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 72-D
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
ELECTRONICS, HF COMMO/MICROWAVE FACIL SEARCH		CH
WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []

25X1

25X1

25X1

25X1

A 5-KILOMETER RADIUS SEARCH FOR HF COMMUNICATIONS FACILITIES, MICROWAVE FACILITIES AND CABLE TRFNCHES AT THE LO-NING, TA-CHAI-TAN AND TE-LING-HA SSM LAUNCH COMPLEXES PROVIDED NEGATIVE RESULTS. ELECTRONICS FACILITIES WERE FOUND JUST OUTSIDE THE SEARCH AREA PERIMETERS AT WANG-FAN RADREF STATION AND TE-LING-HA SSM PROBABLE RADCOM STA/BNK/HARD.*

AF PAR 503-79 14 MAR 79 [] SEC CLASS: 13 MSN: 0007P ACCN: S086957 25X1

PALATKI COMMAND CONTROL XMTR FAC BKR HARD U/I		UR 544350N 0352245E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 18
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []

25X1

25X1

THIS REPORT GIVES AN UPDATE OF PALATKI UNIDENTIFIED COMMAND CONTROL TRANSMITTER FACILITY BUNKERED HARD.

1324
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT SUPERSEDES PAR 77-545. ALL ANNOTATIONS IN THIS REPORT ARE KEYED TO DRAWING 79E6514.*

AF PAR 525-79 07 MAR 79 [] SEC CLASS: 13 MSN: 0011P ACCN: S08695A 25X1

CHANGCHUN SSM/SPACE TRACKING FACILITY CH 434345N 1253205E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 28-D
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES A DETAILED PHOTO ANALYSIS OF THE CHANG-CHUN SSM/SPACE TRACKING FACILITY. IT INCLUDES A TABULAR LISTING OF THE FACILITY'S HF COMMUNICATIONS ANTENNAS, THEIR AZIMUTHS, AND DIMENSIONS. ALSO INCLUDED IS A CHRONOLOGY OF MISSION COVERAGE.

THIS REPORT SUPERSEDES PORTIONS OF PARS 78-549, 76-696, 75-571, AND 73-634, AND IS SUPPLEMENTED BY DRAWING 79E6510.*

AF PAR 539-79 09 MAR 79 [] SEC CLASS: 13 MSN: 0002P ACCN: S086959 25X1

SUNTIEN SSM COMPLEX HF COMMO/MICRO FACS SRCH CH 3346 N 11150 E
WAC NO : 0385 BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

A SEARCH FOR HF COMMUNICATIONS FACILITIES, MICROWAVE FACILITIES AND CABLE TRENCHES WITHIN A 5-KILOMETER RADIUS OF SELECTED SITES AT THE SUN-TIEN SSM COMPLEX FAILED TO REVEAL ANY NEW ELECTRONICS RELATED FACILITIES. THE SELECTED SEARCH SITES INCLUDE THE FOLLOWING SUN-TIEN SSM COMPLEX FACILITIES: LAUNCH SITE 1, LAUNCH SITE 1 RADCOM STA/BNK/HD, THE COMPLEX SUPPORT FACILITY, THE POSSIBLE PROPELLANT STORAGE AREA, THE CAVE STORAGE FACILITY, AND THE U/I ACTIVITY AREA.*

25X1

1325
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-71938-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S086963 25X1
 MOSKVA AVIATION TRAINING FACIL AIRFRAME SRCH UR 554000N 0372800E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 36-B1 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

DIA IIM 5B3-71934-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S086964 25X1
 ARKHANGELSK AIR FORCE SCHOOL AIRCRAFT SEARCH UR 643230N 0403200E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

DIA IIM 5B1-71906-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S086967 25X1
 PAPLAKA AVIATION TRAINING FAC AIRFRAME SEARCH UR 562730N 0212700E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 9-D 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

DIA IIM 5B1-71905-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S086968 25X1
 VLADIMIR AIR FORCE SCHOOL AIRCRAFT SEARCH UR 5608 N 04025 E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

1326
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-71935-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5086969 25X1
LIPETSK AIR FORCE SCHOOL AIRFRAME SEARCH UR 523700N 0393400E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: [] 25X1

DIA IIM 5B3-71933-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5086971 25X1
PENZA AIR FORCE SCHOOL AIRFRAME SEARCH UR 5311 N 04503 E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: []

DIA IIM 5B3-71925-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5086972 25X1
KALININGRAD AIR TRAINING INSTL U/I A/F SEARCH UR 544805N 0201840E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 58-C2 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: []

DIA IIM 5B3-71924-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5086975 25X1
KUBINKA AIRFIELD AIRCRAFT SEARCH UR 553645N 0363855E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 34-A 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM 5B3-71937-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5086976 25X1

1327
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

TROITSK AIR TRAINING INSTL PROB AIRCRAFT SRCH

UR 540500N 0613130E
NPIC NO : - 20-B3
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71936-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086977 25X1

ACHINSK AIR FORCE SCHOOL AIRFRAME SEARCH

UR 561517N 0902820E
NPIC NO : - 1-D
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71913-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086978 25X1

FEODOSIYA AIR FORCE SCHOOL AIRCRAFT SEARCH

UR 4503 N 03522 E
NPIC NO : -
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71911-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086979 25X1

ORENBURG AVIATION PILOTS SCHOOL AIRCRAFT SRCH

UR 514525N 0550710E
NPIC NO : - 2-K4
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71908-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086980 25X1

RUBTSOVSK AIR TECHNICAL SCHOOL AIRCRAFT SRCH

UR 513035N 0810940E
NPIC NO : - 4-G1
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71931-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086981 25X1

KUSARY AIR FORCE SCHOOL PROB AIRCRAFT SEARCH

UR 412530N 0482605E
NPIC NO : - 91-A
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71932-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086982 25X1

PERM AVIATION TECHNICAL SCHOOL AIRCRAFT SRCH

UR 575720N 0561240E
NPIC NO : - 16-X2
COMIREX NO:

25X1

WAC NO :
IDHS CODE: BE/OBJ NO:
EPF CAT : 05

DIA IIM 5B3-71922-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S086983 25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

VYBORG AIRFIELD EAST AIRCRAFT SEARCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05A

UR 604026N 0290957E
NPIC NO : - 39-A
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-71926-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S08698425X1

CHARDZHOU AVIATION MAINT SCHOOL A/C SEARCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05

UR 390602N 0633500E
NPIC NO : - 1-G
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-71927-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S08698525X1

NIKOLAYEV NAVAL FLIGHT TRNG SCHOOL A/C SRCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05

UR 465750N 0315645E
NPIC NO : - 46-B2
COMIREX NO:

25X1

DIA IIM 5B3-71929-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S08698625X1

FRUNZE AIR FORCE SCHOOL AIRCRAFT SEARCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05

UR 425130N 0743610E
NPIC NO : - 130
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-71930-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S08698725X1

VOLGOGRAD KACHA PILOT SCHOOL AIRCRAFT SEARCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05

UR 484425N 0443000E
NPIC NO : - 16-D2
COMIREX NO:

25X1

DIA IIM 5B3-71904-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S08698825X1

CHIMKENT AIR FORCE MAINT SCHOOL AIRCRAFT SRCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05

UR 421820N 0693600E
NPIC NO : - 8-A
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-71914-79 18 APR 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S08698925X1

VYBORG AIRFIELD AIRCRAFT SEARCH

WAC NO : [] BE/OBJ NO: []
IUHS CODE: [] EPF CAT : 05A

UR 604430N 0283730E
NPIC NO : - 39-B1
COMIREX NO:

25X1

DIA IIM 5B1-71830-79 16 APR 79 [] SEC CLASS: 14B MSN: [] 0004P

ACCN: S08699025X1

VOLOGDA MILITARY VEHICLE STORAGE FACILITY

UR 591358N 0395250E

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

NPIC NO : -
COMIREX NO:

25X1

25X1

DIA IIM 5B1-71869-79 16 APR 79

SEC CLASS: 14B MSN: 0003P

ACCN: S086994

25X1

DULGOPOL AMMUNITION DEPOT 502

BU 430058N 0271950E

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 35F

NPIC NO : - 28
COMIREX NO:

25X1

25X1

1330
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

IUHS CODE: []

EPF CAT : 35F

COMIREX NO:

25X1

25X1

DIA IIM 5B1-71852-79 16 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: 5086998

25X1

AFRIKANDA AIRFIELD FLAGON SU-15 COUNTS

UR 672723N 0324731E

WAC NO : []

BE/OBJ NO: []

NPIC NO : - 1

25X1

IUHS CODE: []

EPF CAT : 05A

COMIREX NO: []

25X1

25X1

1331

TOP SECRET CHESS RUFF

25X1

25X1

Page Denied

Next 1 Page(s) In Document Denied

TOP SECRET CHESS RUFF

25X1

25X1

DIA NBRG NDA06-5035-78 18 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087010

SOVETSKAYA GAVAN NAVAL BASE + SHIPYARD 263 UR 485738N 1401623E
WAC NO : BE/OBJ NO: NPIC NO : - 29-F
IDHS CODE: EPF CAT : 75B COMIREX NO:
SOVETSKAYA GAVAN NAVAL BASE + SHIPYARD 263 UR 485738N 1401623E
WAC NO : BE/OBJ NO: NPIC NO : - 29-F
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1

25X1'

25X1

25X1

DIA NBRG NDA06-5036-78 18 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087011

SOVETSKAYA GAVAN SHIP REPAIR YARD BYAUDE UR 490038N 1401438E
WAC NO : BE/OBJ NO: NPIC NO : - 29-K1
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1

1334
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

DIA	NBRG	NDA06-5037-78	18 APR 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087012
		STRELOK ZALIV NAVAL MISSILE STORAGE 2		UR	425331N 1323327E		
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : - 65-A1	25X1
		IDHS CODE:	[Redacted]	EPF CAT :	40G	COMIREX NO:	
DIA	NBRG	NDA06-5038-78	18 APR 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087013
		PETROPAVLOVSK NAVAL MISSILE STORAGE		UR	525653N 1582258E		
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : - 12-K	25X1
		IDHS CODE:	[Redacted]	EPF CAT :	40G	COMIREX NO: [Redacted]	25X1
DIA	NBRG	NDA06-5039-78	18 APR 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087014
		KORSAKOV NAVAL BASE		UR	463801N 1424551E		
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : - 28-B	25X1
		IDHS CODE:	[Redacted]	EPF CAT :	75B	COMIREX NO: [Redacted]	25X1
DIA	NBRG	NDA06-5040-78	18 APR 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087015
		Khabarovsk Naval Base Ostrov Zayachiy		UR	483430N 1350150E		
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : - 7-F2	25X1
		IDHS CODE:	[Redacted]	EPF CAT :	75B	COMIREX NO: [Redacted]	25X1
NPIC	REPT	STAR02-79	01 FEB 79	SEC CLASS: 14B	MSN:	0015P	ACCN: S087016 25X1
		GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT		CH			
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : -	
		IDHS CODE:	[Redacted]	EPF CAT :	10I	COMIREX NO:	
		GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT		UR			
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : -	
		IDHS CODE:	[Redacted]	EPF CAT :	10I	COMIREX NO:	
		GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT		US			
		WAC NO :	[Redacted]	BE/OBJ NO:	[Redacted]	NPIC NO : -	
		IDHS CODE:	[Redacted]	EPF CAT :	10I	COMIREX NO:	

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NAVY BIIR RNg23-5002-78 DEC 78 SEC CLASS: 04 MSN: 0078P ACCN: S087041

SHIPS, KRIVAK-1 CLASS FFG	UR
WAC NO :	BE/OBJ NO:
IUHS CODE:	EPF CAT : 75D
SHIPS, KRIVAK-2 CLASS FFG	UR
WAC NO :	BE/OBJ NO:
IUHS CODE:	EPF CAT : 75D

THIS REPORT PROVIDES A DETAILED, IMAGERY-DERIVED ANALYSIS OF THE KRIVAK-I AND KRIVAK-II CLASS GUIDED MISSILE FRIGATES (FFGS) AND IS BASED ON HIGH-RESOLUTION AERIAL AND GROUND PHOTOGRAPHY. IT INCLUDES BASIC DIMENSIONAL CHARACTERISTICS, COMPREHENSIVE ARMAMENT AND ELECTRONICS INVENTORIES, ANNOTATED PHOTOGRAPHIC ILLUSTRATIONS, SCALE DRAWINGS, INDIVIDUAL UNIT IDENTIFICATION SECTIONS, AND REFERENCE DATA.

KRIVAK-I AND KRIVAK-II CLASS FFGS REPRESENT MODERN, HIGHLY SOPHISTICATED ADDITIONS TO THE SOVIET FLEET WHICH SUPPLEMENT THE AGING SKORYY CLASS DDS AND RIGA CLASS FFS. THE [] BY [] KRIVAK HULLS SUPPORT WEAPONRY TO ACCOMPLISH A PRIMARY MISSION OF ASW IN ADDITION TO SECONDARY MISSIONS OF AAW AND ANTISHIP WARFARE. THE STEPPED HULL, TAPERED SINGLE STACK, AND RELATIVELY LOW SUPERSTRUCTURE GIVE THE KRIVAK CLASSES A SLEEK, LOW PROFILE.

THIS REPORT SUPERSEDES RNg-23/5004/76, KRIVAK CLASS DDGSP, OF NOVEMBER 1975. THE INTELLIGENCE CUTOFF DATE FOR THIS REPORT IS JUNE 1978.

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NPIC PIR PIR020-79 APR 79 SEC CLASS: 25D MSN: 0011P ACCN: S087047 25X1

WUCHAI MTC CSS-X-4 SILO LAUNCH

WAC NO :

BE/OBJ NO:

CH 384950N 1113620E

NPIC NO : - 77-F

IDHS CODE:

EPF CAT : 40A

COMIREX NO:

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THIS REPORT PROVIDES AN IMAGERY-DERIVED SUMMARY AND ASSESSMENT OF THE DEVELOPMENTS AND OF THE PREPARATIONS OBSERVED AT THE WU-CHAI MISSILE TEST CENTER (MTC) WHICH LED TO THE FIRST IN-SILO LAUNCH OF THE PEOPLE'S REPUBLIC OF CHINA'S (PRC) LARGE ICBM, THE CSS-X-4. ACTIVITIES OBSERVED AT WU-CHAI THAT ARE RELIABLE INDICATORS OF AN IMPENDING TEST FROM THE SILO AND OF THE INTENDED DIRECTION OF FLIGHT OF THE MISSILE ARE INCLUDED IN THIS REPORT. THE QUANTITY AND THE INTERPRETABILITY OF THE IMAGERY NEEDED TO DETECT AN UPCOMING TEST ARE ALSO DISCUSSED.

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CIA INFR IS10020-79 02 FEB 79 SEC CLASS: 05 MSN: 0011P ACCN: S087055

EKIBASTUZ COAL MINING ACTIVITY

WAC NO : BE/OBJ NO: UR 5143 N 07519 E
IDHS CODE: EPF CAT : 30A NPIC NO : -
EKIBASTUZ THERMAL POWER PLANT GRES COMIREX NO:
WAC NO : BE/OBJ NO: UR 515300N 0752320E
IDHS CODE: EPF CAT : 30E NPIC NO : -
COMIREX NO:

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THIS STUDY DESCRIBES COAL MINING ACTIVITY AND POWER PLANT CONSTRUCTION IN THE EKIBASTUZ AREA OF THE SOVIET UNION. IT IS THE FIRST OF THREE PLANNED STUDIES OF SOVIET COAL MINING AREAS WHERE MINING ACTIVITIES ARE REPORTEDLY BEING EXPANDED. THE OTHER TWO AREAS ARE KAMSK-ACHINSK AND YARNAKOVSKIY. THE EKIBASTUZ AREA REPORTEDLY PRODUCES ABOUT ONE-FOURTH OF THE SOVIET UNION'S STRIP-MINED COAL. BASED ON THE CAPACITIES OF THE EXCAVATING EQUIPMENT OBSERVED, OIA ESTIMATES THAT PRODUCTION AT THE TWO EKIBASTUZ MINES IN 1975 WAS ABOUT 46 MILLION METRIC TONS AND THAT 1978 PRODUCTION WOULD BE ABOUT 75 MILLION METRIC TONS. THESE FIGURES ARE VERY CLOSE TO SOVIET REPORTS OF COAL PRODUCTION AT EKIBASTUZ. THE SOVIETS HAVE ANNOUNCED PLANS TO EXPAND COAL PRODUCTION FACILITIES AND TO BUILD FOUR POWER PLANTS IN THE EKIBASTUZ AREA. EXPANSION OF THE TWO EKIBASTUZ MINES AND INTRODUCTION OF NEW MINING EQUIPMENT HAS BEEN EVIDENT ON SATELLITE PHOTOGRAPHY OVER THE PAST NINE YEARS. IN 1978 A LARGE NEW COAL PROCESSING AND WASHING PLANT WAS UNDER CONSTRUCTION.

CIA INFR IS10069K-79 18 APR 79 SEC CLASS: 13 MSN: 0002P ACCN: S087056 25X1

MISSILES, REAR SUPT DPOS SS-16/20 EQUIP SRCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, REAR SUPT DPOS SS-16/20 EQUIP SRCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40B COMIREX NO:
NOVAYA MEZINOVKA MISSILE SUPT REAR DPO SS-20 UR 533047N 0265525E
WAC NO : BE/OBJ NO: NPIC NO : - 131-A
IDHS CODE: EPF CAT : 40B COMIREX NO:

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CIA INFR IS10001K-79 16 MAR 79 SEC CLASS: 13 MSN: 0011P ACCN: S087057 25X1

KURGAN MEDICINAL PREPARATIONS PLANT UR 552409N 0651257E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30F COMIREX NO:

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THIS MEMORANDUM DISCUSSES THE KURGAN MEDICAL PREPARATIONS PLANT ON THE SOUTHERN OUTSKIRTS OF KURGAN, IN THE RUSSIAN SFSR. INFORMATION FROM SOVIET SOURCES INDICATES THAT THE PLANT BEGAN OPERATION IN 1958 AND THAT IT PRODUCES PLANT AND ANIMAL GROWTH STIMULANTS AND ANTIBIOTICS. PHOTOGRAPHY SHOWS THAT THE PLANT WAS PARTIALLY COMPLETE IN DECEMBER 1961 AND THAT IT HAS BEEN GRADUALLY EXPANDED SINCE THEN. AN INTERESTING

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FEATURE OF THE PLANT IS A SPECIAL STORAGE AREA WHICH IS VIRTUALLY IDENTICAL TO STORAGE AREAS FOUND AT PLANTS IN BERDSK AND PENZA. LIKE KURGAN, THE BERDSK AND PENZA PLANTS REPORTEDLY PRODUCE PHARMACEUTICALS OR ANIMAL GROWTH STIMULANTS. THE PRODUCTION BUILDINGS AND SOME OF THE BUILDINGS IN THE STORAGE AREAS AT

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THIS MEMORANDUM DESCRIBES THE FACILITIES AT THE KURGAN PLANT, BRIEFLY OUTLINES THE PLANT'S CONSTRUCTION CHRONOLOGY, AND DISCUSSES THE SIMILARITIES OF THIS PLANT WITH THE OTHER PLANTS HAVING SIMILAR FEATURES.

CIA INFR IS10033K-79 16 MAR 79 SEC CLASS: 13 MSN: 0016P ACCN: S08705825X1

BLAGOVESHCHENSK HEAT + THERMAL POWER PLANT	UR	550148N 0560159E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
IZHEVSK HEAT + THERMAL POWER PLANT TETS 2	UR	565328N 0532026E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
NIZHNEKAMSK THERMAL POWER PLANT TETS 2	UR	553436N 0515623E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
SARATOV HEAT + THERMAL POWER PLANT TETS 5	UR	514225N 0460025E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
STERLITAMAK THERMAL POWER PLANT TETS 2	UR	534010N 0555418E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
SVERDLOVSK THERMAL POWER PLANT TETS 2	UR	565014N 0605029E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
VOLGOGRAD THERMAL POWER PLANT TETS 4	UR	482735N 0444022E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IDHS CODE :	EPF CAT :	COMIREX NO :	
INDUSTRY, THERMAL POWER PLANTS NEW	UR		

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WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30E COMIREX NO:

THIS MEMORANDUM PRESENTS INFORMATION ON SEVEN THERMAL POWER PLANTS IN THE URALS-VOLGA REGION OF WESTERN USSR THAT HAVE BEEN BUILT SINCE JANUARY 1973 OR ARE CURRENTLY UNDER CONSTRUCTION. FOUR OF THE SEVEN PLANTS ARE OPEKATIONAL. THESE INCLUDE BLAGOVESHCHENSK HEAT AND THERMAL POWER PLANT, IZHEVSK HEAT AND THERMAL POWER PLANT TETS 2, STERLITAMAK THERMAL POWER PLANT TETS 2, AND VOLGOGRAD THERMAL POWER PLANT TETS 4. BASED ON A COMPARISON OF THE DIMENSIONS OF THEIR GENERATOR HALLS WITH THE DIMENSIONS OF THE GENERATOR HALLS AT OTHER PLANTS WHOSE CAPACITIES ARE KNOWN, THE TOTAL ESTIMATED ELECTRICAL GENERATING CAPACITY OF THE FOUR PLANTS IS 1,200 MEGAWATTS (MW). AN ADDITIONAL 500 MW OF GENERATING CAPACITY WILL BE AVAILABLE AT TWO OF THE FOUR PLANTS WHEN CONSTRUCTION CURRENTLY UNDERWAY IS COMPLETE. A FIFTH PLANT -- SARATOV HEAT AND THERMAL POWER PLANT TETS 5 -- WAS APPROXIMATELY 75 PERCENT COMPLETE IN APRIL 1978 AND WILL HAVE 500 MW OF ELECTRICAL GENERATING CAPACITY. THE REMAINING PLANTS WERE IN AN EARLY STAGE OF CONSTRUCTION WHEN LAST SEEN (IN MARCH AND JULY 1978) AND THEIR ELECTRICAL GENERATING CAPACITIES COULD NOT BE ESTIMATED. BOILER FUELS USED BY THE NEW PLANTS INCLUDE NATURAL GAS, OIL AND COAL. ONLY ONE OF THE FOUR COMPLETED PLANTS HAS THE CAPABILITY TO CHANGE TO A DIFFERENT TYPE OF FUEL IF ITS PRIMARY FUEL SUPPLY IS DISRUPTED. THE SEVEN POWER PLANTS WILL PROVIDE ELECTRICITY TO NEARBY INDUSTRIAL FACILITIES AND THE LOCAL POWER DISTRIBUTION SYSTEM.

CIA INFR IS10053J-79 20 MAR 79 SEC CLASS: 24 MSN: 0023P ACCN: S08705925X1

OREL RADIO RELAY/TV RELAY/FM BROADCAST STA	UR 525518N 0360908E	
WAC NO : BE/OBJ NO: NPIC NO : - 65-B1		25X1
IDHS CODE: EPF CAT : 25D COMIREX NO:		
OREL RADIO RELAY/TV RELAY/FM BROADCAST STA	UR 525518N 0360908E	
WAC NO : BE/OBJ NO: NPIC NO : - 65-B1		25X1
IDHS CODE: EPF CAT : 25B COMIREX NO:		
TROSNA RADIO RELAY STATION	UR 522525N 0354850E	
WAC NO : BE/OBJ NO: NPIC NO : - 176		25X1
IDHS CODE: EPF CAT : 25D COMIREX NO:		
FATEZH RADIO RELAY STATION SOUTH	UR 520351N 0355305E	
WAC NO : BE/OBJ NO: NPIC NO : - 193		25X1
IDHS CODE: EPF CAT : 25D COMIREX NO:		
KURSK RADIO RELAY + TV RELAY STATION WEST	UR 514530N 0360730E	
WAC NO : BE/OBJ NO: NPIC NO : - 23-L1		25X1
IDHS CODE: EPF CAT : 25D COMIREX NO:		25X1
KURSK RADIO RELAY + TV RELAY STATION WEST	UR 514530N 0360730E	
WAC NO : BE/OBJ NO: NPIC NO : - 23-L1		25X1
IDHS CODE: EPF CAT : 25B COMIREX NO:		25X1
DROZDY RADIO RELAY STATION 2	UR 511840N 0361055E	
WAC NO : BE/OBJ NO: NPIC NO : - 117		25X1.1
IDHS CODE: EPF CAT : 25D COMIREX NO:		
YAKOVLEVO RADIO RELAY STATION ENE	UR 505140N 0362310E	

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WAC NO :	BE/OBJ NO :	NPIC NO :	- 63-A	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
BELGOROD RADIO RELAY/TV RELAY/FM BDCST STA		UR	503433N 0363450E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 3-A1	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
BELGOROD RADIO RELAY/TV RELAY/FM BDCST STA		UR	503433N 0363450E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 3-A1	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
LENNYO RADIO RELAY STATION		UR	501301N 0361600E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 15-I1	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
MEREFA RADIO RELAY STATION		UR	494830N 0360205E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 15-T4	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
KHARKOV RADIO RELAY/TV/FM BROADCAST CENTER		UR	500026N 0361334E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 15-F2	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		
KHARKOV RADIO RELAY/TV/FM BROADCAST CENTER		UR	500026N 0361334E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 15-F2	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		
LYUBOTIN RADIO RELAY STATION		UR	495810N 0355200E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 15-R2	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		
ISKROVKA RADIO RELAY STATION	SW	UR	494905N 0350925E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 70-B	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
POLTAVA TV BROADCAST STATION		UR	493430N 0343415E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 31-A9	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
SHISHAKI RADIO RELAY STATION		UR	495220N 0335950E	
WAC NO :	BE/OBJ NO :	NPIC NO :	-	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
DELOTSEKOVKA TV RELAY STATION		UR	494030N 0334415E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 38-D	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
GLOBINO RADIO RELAY STATION		UR	492902N 0331033E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 148-A	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
LIPOVIVE RADIO RELAY STATION		UR	492722N 0323754E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 211	25X1
IDHS CODE :	EPF CAT :	COMIREX NO :		25X1
CHEKASSY TV RELAY + FM BROADCAST STATION		UR	492740N 0320210E	
WAC NO :	BE/OBJ NO :	NPIC NO :	- 9-D1	25X1

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IDHS CODE: [redacted]	EPF CAT : 25B	COMIREX NO: [redacted]	25X1
KANEV PASSIVE RADIO RELAY STATION GOAL POST	UR 494248N 0312936E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : -	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
KANEV RADIO RELAY STATION	UR 494427N 0312639E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 195-A	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO: [redacted]	25X1
MALYY KAGARLYK RADIO RELAY STATION	UR 495225N 0305330E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 203	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
OBUKHOV RADIO RELAY STATION	UR 500700N 0303600E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 29-F3	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO: [redacted]	25X1
KIYEV LONG DISTANCE TELEPHONE SWITCHING CTR	UR 502642N 0303036E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : -	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
KIYEV TV STATION	UR 502755N 0302705E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 29-C3	25X1
IDHS CODE: [redacted]	EPF CAT : 25B	COMIREX NO:	
BRYANSK RADIO RELAY STATION	UR 531220N 0342455E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 8-E2	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
NAVLYA RADIO RELAY STATION	UR 525000N 0343005E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 208	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
KHOLMECH RADIO RELAY STATION	UR 523012N 0341248E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 207	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
SEREDINA BUDA RADIO RELAY STATION	UR 521110N 0340135E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 204	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
YAMPOL RADIO RELAY STATION	UR 515428N 0334443E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 207	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
KROLEVETS RADIO RELAY STATION	UR 513233N 0332129E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 106-C	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	
KONOTOP TV RELAY STATION	UR 511400N 0331200E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 32-C3	25X1
IDHS CODE: [redacted]	EPF CAT : 25B	COMIREX NO: [redacted]	25X1
BAKHMACH RADIO RELAY STATION	UR 510732N 0323750E		
WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO : - 82-C	25X1
IDHS CODE: [redacted]	EPF CAT : 25D	COMIREX NO:	

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NEZHIN RADIO RELAY STATION SOUTH	UR	510128N 0325320E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 40-B1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
BOBROVITSA RADIO RELAY STATION	UR	504515N 0312128E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 206	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
DARNITSA RADIO RELAY STATION	UR	502725N 0304350E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
MIKULICHI RADIO RELAY STATION	UR	503345N 0300525E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 17-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
KIYEV RADIO RELAY STATION	UR	502657N 0303045E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
BORISPOL RADIO RELAY STATION	UR	501835N 0310428E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 30-N1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BEREZAN RADIO RELAY STATION	UR	501805N 0312805E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
PRILUKI TV BROADCAST STATION	UR	503730N 0322350E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 46-E1	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	
OBUKHOV RADIO RELAY STATION 2	UR	500640N 0303640E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
BORISPOL RADIO RELAY STATION 2	UR	502100N 0305710E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
BARYSHEVKA RADIO RELAY STATION	UR	502205N 0312005E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
BOGODUKHOV RADIO RELAY STATION	UR	501040N 0353030E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 90-A2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

THE RADIO-RELAY POINT-TO-POINT COMMUNICATIONS NETWORK WITHIN THE BRYANSK, OREL, KHARKOV, KIEV AREA CONSISTS OF FOUR MAIN AND SIX BRANCH LINES. THESE LINES CONTAIN 55 RADIO-RELAY STATIONS WITH A VARIETY OF ANTENNA TYPES. SEVERAL OF THE LINES USE A MIXTURE OF ANTENNA TYPES.

THREE OF THE FOUR MAIN LINES ARE SEGMENTS OF LINES THAT ORIGINATE IN MOSCOW. TWO OF THESE MAIN LINES PARALLEL EACH OTHER BETWEEN OREL AND MERFA. THEY ARE SEGMENTS OF LINES THAT REPORTEDLY EXTEND FROM MOSCOW TO SIMFEROPOL. THE LINE BETWEEN BRYANSK AND MIKULICHI (NEAR KIEV) IS PART OF THE MOSCOW-KIEV

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RADIO-RELAY LINE. THE FOURTH MAIN LINE EXTENDS FROM KHARKOV TO KIYEV.

CIA INFR IS10055J-79 29 MAR 79 [] SEC CLASS: 24 MSN: 0006P ACCN: 5087061 25X1

AL BASRAH NAVAL TRNG FAC REBEL GUERILLA TRNG	IZ 3047 N 04746 E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 75	COMIREX NO:
DEH DADI MILITARY BARRACKS GUERILLA TRNG POSS	AF 3537 N 06700 E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35A	COMIREX NO:
DEH DADI MILITARY BARRACKS GUERILLA TRNG POSS	AF 3537 N 06700 E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35B	COMIREX NO:

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ACTIVITY THAT COULD POSSIBLY BE RELATED TO THE TRAINING OF THESE REBEL GROUPS HAS BEEN IDENTIFIED ON RECENT SATELLITE PHOTOGRAPHY AT TWO MILITARY INSTALLATIONS--A NAVAL TRAINING FACILITY IN IRAQ, AND A GROUND FORCES INSTALLATION IN AFGHANISTAN.

CIA INFR IS10060K-79 28 MAR 79 [] SEC CLASS: 13 MSN: 0004P ACCN: 5087062 25X1

MILITARY, SOUTH YEMEN/NORTH YEMEN BORDER ACT	YS	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35	COMIREX NO:
MILITARY, NORTH YEMEN/SOUTH YEMEN BORDER ACT	YE	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35	COMIREX NO:

25X1

THIS MEMORANDUM SUMMARIZES OIA'S ANALYSIS OF MILITARY ACTIVITY IN THE BORDER AREA BASED ON SR-71 PHOTOGRAPHY DATED [] AND SATELLITE PHOTOGRAPHY DATED [] SPECIFICALLY, THEY HAVE ANALYZED SOUTH YEMENI (PDY) AND YEMEN ARAB REPUBLIC (YAR) FORCES IN THE VICINITY OF THE MAJOR YAR BORDER TOWNS OF QATABAH, AL BAYDAH, AND HARIB, IN ADDITION TO THE SOUTHWESTERN BORDER REGION. ADDITIONALLY, OIA HAS VERIFIED THE WITHDRAWAL OF PDY FORCES FROM THE QATABAH AND AL BAYDAH AREAS OF THE YAR IN ACCORDANCE WITH RECENT CEASEFIRE AGREEMENTS.

CIA INFR IS10059K-79 20 MAR 79 [] SEC CLASS: 13 MSN: 0046P ACCN: 5087063 25X1

SHIPS, PRODUCTION FACILITIES ACTIVITY 1978	UR	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 75E	COMIREX NO:
GORKIY SHIPYARD 112	UR 562142N 0435228E	
WAC NO :	BE/OBJ NO:	NPIC NO : - 13-C

25X1

1352
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
KALININGRAD SHIPYARD STATE 820	WAC NO : []	BE/OBJ NO: []	UR 544137N 0202616E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 57-D	25X1
KHABAROVSK SHIPYARD USSURI SOUTH 876	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
	IDHS CODE: []	EPF CAT : 75E	UR 482405N 1350226E	25X1
KOMSOMOLSK SHIPYARD AMUR 199	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-D	25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
	WAC NO : []	BE/OBJ NO: []	UR 503232N 1370248E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 13-E	25X1
LENINGRAD SHIPYARD ADMIRALTY 194	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
	IDHS CODE: []	EPF CAT : 75E	UR 595502N 0301618E	25X1
LENINGRAD SHIPYARD PETROVSKIY	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 36-T	25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
	WAC NO : []	BE/OBJ NO: []	UR 595736N 0301512E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 36-W1	25X1
LENINGRAD SHIPYARD SUDOMEKH 196	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
	IDHS CODE: []	EPF CAT : 75E	UR 595541N 0301645E	25X1
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 36-B	25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []	25X1
LENINGRAD SHIPYARD ZHDANOV 190	WAC NO : []	BE/OBJ NO: []	UR 595233N 0301406E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 36-K	25X1
	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
NIKOLAYEV SHIPYARD NOSENKO 444	WAC NO : []	BE/OBJ NO: []	UR 465705N 0315816E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 46-B	25X1
	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
NIKOLAYEV SHIPYARD NORTHERN 61 KOMMUNA 445	WAC NO : []	BE/OBJ NO: []	UR 465840N 0320019E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 46-C	25X1
	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
SEVERODVINSK SHIPYARD 402	WAC NO : []	BE/OBJ NO: []	UR 643438N 0394832E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 7-A	25X1
	WAC NO : []	BE/OBJ NO: []	COMIREX NO: []	25X1
ZELENODOLSK SHIPYARD 340	WAC NO : []	BE/OBJ NO: []	UR 555011N 0483008E	25X1
	IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 34-B	25X1
			COMIREX NO: []	25X1

THE MAJOR PRODUCTION COMPONENTS OF THIRTEEN SOVIET SHIPYARDS--THOSE RESPONSIBLE FOR MOST OF THE SIGNIFICANT NAVAL ORDER OF BATTLE--WERE ANALYZED IN THIS MEMORANDUM, USING 1978 SATELLITE PHOTOGRAPHY, FOR EXPANSION OR MODERNIZATION, FOR INDICATORS OF CONSTRUCTION PROGRAMS, AND FOR CHANGES IN ACTIVITY LEVELS TO DETERMINE INDICATIONS OF GROWTH PATTERNS IN THE SOVIET DEFENSE INDUSTRY.*

25X1

1353
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA INFR IS10070J-79 17 APR 79 [] SEC CLASS: 24 MSN: 0005P ACCN: S087065 25X1

MOSKVA/SHCHELKOVO AIRFIELD TASM NEW IDENT	UR	555248N 0380347E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 51	25X1
IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []	25X1
MOSKVA/SHCHELKOVO AIRFIELD TASM NEW IDENT	UR	555248N 0380347E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 51	25X1
IDHS CODE: []	EPF CAT : 40J	COMIREX NO: []	25X1

A NEW TACTICAL AIR-LAUNCHED MISSILE, WHICH PROBABLY SERVES AN AIR-TO-SURFACE (TASM) ROLE, WAS IMAGED AT MOSCOW-SHCHELKOVO AIRFIELD ON [] THE MISSILE WAS PART OF A DISPLAY OF MILITARY ORDNANCE ALONG-SIDE A FENCER AIRCRAFT. THIS MISSILE HAS NOT PREVIOUSLY BEEN OBSERVED ON IMAGERY. 25X1

25X1

CIA INFR IS10067J-79 11 APR 79 [] SEC CLASS: 25 MSN: 0020P ACCN: S087067 25X1

AIRCRAFT, COOT IL-22 AIRBORNE COMO POST MODIF	UR		
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 05D	COMIREX NO:	

1354
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

AT LEAST 11 IL-18 COOT HAVE BEEN MODIFIED TO FUNCTION AS THE AIRBORNE COMMAND POST (ACP) FOR THE SOVIET GENERAL STAFF AND PROBABLY OTHER STRATEGIC LEVELS OF COMMAND. THIS MODIFICATION WAS FIRST REPORTED BY FTD IN JUNE 1975. THE MODIFICATIONS INCLUDE A CIGAR-SHAPED POSSIBLE ELECTRONICS COUNTER-COUNTER MEASURES (ECCM) POD MOUNTED ON THE VERTICAL STABILIZER AND SEVEN OTHER ANTENNAS MOUNTED ON THE DORSAL FUSELAGE. THE SOVIETS HAVE DESIGNATED THIS VERSION OF THE COOT THE IL-22.

CIA INFR IS10056K-79 26 MAR 79 [] SEC CLASS: 13 MSN: 0006P ACCN: S087068 25X1

AIRCRAFT, FLOGGER F MIG-23
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER C MIG-23
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 05D COMIREX NO:

A RECENT ISSUE OF OLIVO VERDE (7/79), A CUBAN PICTORIAL MAGAZINE, CONTAINED A FEATURE ARTICLE WITH SEVERAL PHOTOGRAPHS OF FLOGGER AIRCRAFT. ALTHOUGH THE PHOTOGRAPHIC QUALITY IS POOR, OIA WAS ABLE TO DETERMINE THE NUMBER AND MODELS OF FLOGGER, THE TYPE ORDNANCE THEY WERE CONFIGURED TO CARRY, AND THE LIKELY LOCATION OF AT LEAST ONE OF THE GROUND VIEWS. THE NARRATIVE ACCOMPANYING THE PHOTOGRAPHY PROVIDED ALMOST NO INTELLIGENCE INFORMATION.

CIA INFR IS10075J-79 20 APR 79 [] SEC CLASS: 24 MSN: 0010P ACCN: S087069 25X1

NAVAL, ACTIVITY SUMMARY SALT RELATED
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75 COMIREX NO:

THIS MEMORANDUM SUMMARIZES SOVIET STRATEGIC NAVAL ACTIVITY OBSERVED ON SATELLITE IMAGERY FROM [] IT ALSO DISCUSSES UNUSUAL DEPLOYMENT OF NAVAL BALLISTIC-MISSILE AND LONG-RANGE, CRUISE-MISSILE LAUNCH PLATFORMS OBSERVED DURING THE REPORTING PERIOD.

25X1
25X1

CIA INFR IS10058K-79 28 MAR 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S087070 25X1

KANDALAKSHA MILITARY BKS AL2/HQ MRD MRR IDENT UR 671019N 0322523E
WAC NO : BE/OBJ NO: NPIC NO : - 6-I
IUHS CODE: EPF CAT : 35A COMIREX NO:
ALAKURTTI ARMY BARRACKS AL1 MRR + ARTY REGT UR 665805N 0302027E
WAC NO : BE/OBJ NO: NPIC NO : - 2-D2
IUHS CODE: EPF CAT : 35A COMIREX NO:
KEM MILITARY BARRACKS AL3 MTRZD RIFLE REGT UR 645710N 0343433F
WAC NO : BE/OBJ NO: NPIC NO : - 7-E
IUHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1

1355
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

OIA HAS IDENTIFIED AN ADDITIONAL MOTORIZED RIFLE REGIMENT (MRR) AT ONE OF THE INSTALLATIONS HOUSING ELEMENTS OF A MOTORIZED RIFLE DIVISION HEADQUARTERED IN KANDALAKSHA. THE MAJOR ELEMENTS OF THIS DIVISION HAVE BEEN CARRIED AT KANDALAKSHA, ALAKURTTI, AND KEM. THE ADDITION OF THIS MRR MAY INDICATE THAT THE MRR AT KEM IS NO LONGER SUBORDINATE TO THIS DIVISION. EACH OF THE MOTORIZED RIFLE BATTALIONS IN THE DIVISION'S MRRS EMPLOYS MTLBS RATHER THAN GT-TS AS ARMORED PERSONNEL CARRIERS. OIA HAS ALSO IDENTIFIED A DIVISIONAL ARTILLERY REGIMENT EQUIPPED WITH 122-MM AND PROBABLE 152-MM HOWITZERS.

25X1

NPIC MEMO 23 APR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087072 25X1

PRIMORSKIY NAVAL RADCOM/COMSAT FAC NEW SEARCH	UR	4507	N	03530	E
WAC NO :	BE/OBJ NO:	NPIC NO :			
IDHS CODE:	EPF CAT : 25C	COMIREX NO:			
PRIMORSKIY NAVAL RADCOM/COMSAT FAC NEW SEARCH	UR	4507	N	03530	E
WAC NO :	BE/OBJ NO:	NPIC NO :	-		
IDHS CODE:	EPF CAT : 25I	COMIREX NO:			

25X1

25X1

THIS MEMO REVIEWS KEYHOLE PHOTOGRAPHY SINCE TO DETERMINE THE LOCATION OF A POSSIBLE NEW COMSAT FACILITY NEAR THE TOWN OF PRIMORSKIY, USSR. NO NEW COMSAT FACILITY COULD BE IDENTIFIED.*

25X1

25X1

1356
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B1-71870-79 19 APR 79 [] SEC CLASS: 14B MSN: [] 0003P

ACCN: S087074 25X1

SHAPKI ENGINEER DEPOT

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35F

UR 593440N 0310952E
NPIC NO : -
COMIREX NO:

25X1,1

DIA IIM 5B1-71884-79 19 APR 79 [] SEC CLASS: 14B MSN: [] 0005P

ACCN: S087075 25X1

CHELYABINSK ARMY BARRACKS AL2 + ORD DEPOT D01

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 551138N 0612708E
NPIC NO : - 3-B3
COMIREX NO: []

25X1

CHELYABINSK ARMY BARRACKS AL2 + ORD DEPOT D01

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35F

UR 551138N 0612708E
NPIC NO : - 3-B3
COMIREX NO: []

25X1

25X1

1357
TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

UZHGOROD AVTOKOLONNA 2195
WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 85A

UR 483700N 0221630E
NPIC NO : -
COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5B1-71948-79 25 APR 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P

ACCN: 5087089 25X1

LUGA MILITARY STORAGE FACILITY
WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35F

UR 584910N 0295630E
NPIC NO : - 41-B1
COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5B3-71976-79 27 APR 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0004P

ACCN: 5087091 25X1

SVISLOCH RAILROAD YARD
WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 85B

UR 530050N 0240410E
NPIC NO : -
COMIREX NO:

25X1

[Redacted]

25X1

[] TOP SECRET CHESS RUFF []

25X1

25X1

DIA IIM 5b1-71979-79 27 APR 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: 5087094 25X1

RYAZAN AVTOKOLONNA 1132

UR 544730N 0394618E

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 85A

NPIC NO : -
COMIREX NO:

25X1

DIA IIM 5b1-71972-79 30 APR 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: 5087097 25X1

ZGORZELEC AMMUNITION STORAGE FACILITY 505

PL 510724N 0150026E

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35F

NPIC NO : - 225-B1
COMIREX NO:

25X1

25X1

1360
TOP SECRET CHESS RUFF []

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X25X1

[Redacted]

25X1

DIA IIM 5B1-71843-79 30 APR 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0004P

ACCN: S087101 25X1

TASHKENT AVTOKOLONNA 2505

WAC NO : [Redacted]

IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]

EPF CAT : 85A

UR 412005N 0691856E

NPIC NO : -

COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5B1-72006-79 30 APR 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0007P

ACCN: S087103 25X1

SARYCH MYS GOVERNMENT CONTROL RELOCATION SITE

WAC NO : 0250

IDHS CODE: [Redacted]

BE/OBJ NO:

EPF CAT : 10A

UR 442327N 0334433E

NPIC NO : -

COMIREX NO:

25X1

[Redacted]

25X1

1361

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

NPIC SR SR023-79 APR 79 SEC CLASS: 14D MSN: 0005P ACCN: S087112 25X1

SHUANGCHENGZU MTC ICBM SITE B1/2 AZIMUTH CH 411828N 1001854E
WAC NO : BE/OBJ NO: NPIC NO : - 1-N 25X1
IDHS CODE: EPF CAT : 40A COMIREX NO: 25X1

THIS REPORT SUMMARIZES THE IDENTIFICATION AND HISTORY OF ACTIVITY OF A NEW PROBABLE LAUNCH AZIMUTH INDICATOR AT SHUANGCHENGZI (SHUANG-CHENG-TZU) SSM LAUNCH TEST SITE B1/2. THE INDICATOR, A SURVEY TRIPOD, WHEN CONFIRMED WILL PROVIDE AN INDICATION OF THE INTENDED LAUNCH AZIMUTH AS MUCH AS TWO MONTHS PRIOR TO A MISSILE LAUNCH. THE SIGHTING OF THIS SURVEY TRIPOD AT THE 140-DEGREE LAUNCH AZIMUTH PAD FOR THE B2 LAUNCH POSITION ON SUGGESTS THAT THE NEXT LAUNCH FROM SHUANGCHENGZI WILL BE A PHOTORECONNAISSANCE SATELLITE LAUNCHED ALONG A 140-DEGREE AZIMUTH FROM THE B2 LAUNCH POSITION. 25X1

25X1

NPIC PIR PIR027-79 APR 79 SEC CLASS: 25A MSN: 0004P ACCN: S087114 25X1

KUZNETSOVO AIRCRAFT/MISSILE ENGINE TEST FAC UR 553226N 0382941E
WAC NO : BE/OBJ NO: NPIC NO : - 215-A 25X1
IDHS CODE: EPF CAT : 05G COMIREX NO:
KUZNETSOVO AIRCRAFT/MISSILE ENGINE TEST FAC UR 553226N 0382941E
WAC NO : BE/OBJ NO: NPIC NO : - 215-A 25X1
IDHS CODE: EPF CAT : 40E COMIREX NO:

THIS REPORT PROVIDES AN INITIAL DESCRIPTION OF THE KUZNETSOVO ENGINE TEST FACILITY (FORMERLY THE KUZNETSOVO PROBABLE AIRCRAFT ENGINE TEST FACILITY) IN THE USSR. THIS REPORT INCLUDES A LOCATION MAP, ONE ANNOTATED PHOTOGRAPH, AND A LINE DRAWING.*

25X1

1365
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA IAMR 1SMR003J-79 MAR 79 [] SEC CLASS: 25 MSN: 0016P ACCN: S087117 25X1

MILITARY, SS-1 BRIGADE UPGRADE TRANSBAIKAL MD	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 35	COMIREX NO:	
DUNAY SUBMARINE BASE + SHIP RPR YD UPGRADING	UR	425400N	1322110E
WAC NO :	BE/OBJ NO:	NPIC NO :	- 4-C
IDHS CODE:	EPF CAT : 75A	COMIREX NO:	[]
DUNAY SUBMARINE BASE + SHIP RPR YD UPGRADING	UR	425400N	1322110E
WAC NO :	BE/OBJ NO:	NPIC NO :	- 4-C
IDHS CODE:	EPF CAT : 75E	COMIREX NO:	[]
INDUSTRY, SYNTHETIC RUBBER INDUSTRY	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 30F	COMIREX NO:	
SHANGHAI SHIPYARD NEW U/C	CH	311723N	1213311E
WAC NO : 0492	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 75E	COMIREX NO:	
GOTEBORG SHIPYARD ARENDAL GOTAVERKEN DRYDOCK	SW	574212N	0114820E
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 75E	COMIREX NO:	[]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

ELECTRONICS, R-123/R-123M TRANSCIVEERS GSF6 UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25D COMIREX NO:

NPIC SR SR020-79 APR 79 SEC CLASS: 25B MSN: 0004P

ACCN: S08711825X1

ELECTRONICS, RAMONA M MOBILE ELINT SYSTEM CZ
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25A COMIREX NO:

IMAGERY OF [REDACTED] INDICATES THAT THIS MOBILE VERSION, THE RAMONA-M, WAS PROBABLY PRESENT AT
OPATOVICE ARMY BARRACKS 001 [REDACTED], CZECHOSLOVAKIA.

25X1
25X1
25X1

NPIC PIR PIR022-79 APR 79 SEC CLASS: 14D MSN: 0005P

ACCN: S08711925X1

SHIPS, YU KAN CLASS LST CONSTRUCTION PROGRAM CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:
SHIPS, YU LIANG CLASS LSM CONST PROGRAM CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:
SHIPS, YU WEI CLASS LSM CONSTRUCTION PROGRAM CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:
SHIPS, YU CHING CLASS LSM CONST PROGRAM CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:

THE PEOPLE'S REPUBLIC OF CHINA HAS EMBARKED ON A SHIP CONSTRUCTION PROGRAM THAT IS EVIDENTLY INTENDED TO AUGMENT THE NAVY'S AGING FLEET OF FORMER US AMPHIBIOUS SHIPS. DURING 1975 THROUGH 1977, THE CHINESE BUILT PROTOTYPES FOR FOUR NEW CLASSES OF AMPHIBIOUS WARFARE SHIPS. THREE OF THESE NEW CLASSES HAVE BEEN PLACED INTO SERIES PRODUCTION, ONE IN EACH OF THE NAVY'S THREE FLEET AREAS. THE SHIPS DISCUSSED INCLUDE THE YU KAN, THE YU LIANG, THE YU WEI, AND THE YU CHING.*

25X1

1367
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

NPIC SR SR021-79 APR 79 [redacted] SEC CLASS: 25D MSN: 0003P

ACCN: S087121

25X1

CHINHSI SSM R+D TEST CPLX CSA-X-2 TEST ACT CH 404126N 1205309E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 19-D1
IDHS CODE: [redacted] EPF CAT : 40C COMIREX NO: [redacted]

25X1

25X1

NPIC PIR PIR017-79 APR 79 [redacted] SEC CLASS: 14 MSN: [redacted] 0005P

ACCN: S087122

25X1

BACAU AIRFRAME PLANT RO 463120N 0265510E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 68-B
IDHS CODE: [redacted] EPF CAT : 05G COMIREX NO:

25X1

THIS IS THE INITIAL NPIC REPORT ON BACAU AIRFRAME PLANT, THE LARGEST AIRFRAME PLANT IN ROMANIA. THE PLANT COMPRISES 73 BUILDINGS AND STRUCTURES, OF WHICH 66 ARE CONSIDERED SIGNIFICANT, AND CONTAINS 101,525 SQUARE METERS OF FLOORSPACE. A LOCATION MAP, THREE ANNOTATED PHOTOGRAPHS, AND A TABLE OF DESCRIPTIVE AND MENSURAL DATA ARE INCLUDED IN THIS REPORT.

25X1

1368
TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

DIA NBRG NDA06-5027-78 27 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087137

CHINGTAO NAVAL DOCKYARD
WAC NO : [Redacted]
IDHS CODE: [Redacted]
CHINGTAO NAVAL DOCKYARD
WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75B
BE/OBJ NO: [Redacted]
EPF CAT : 75E

CH 360424N 1201818E
NPIC NO : - 13-E
COMIREX NO: [Redacted]
CH 360424N 1201818E
NPIC NO : - 13-E
COMIREX NO: [Redacted]

25X1
25X1
25X1
25X1

DIA NBRG NDA06-5028-78 27 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087138

TAKUSHAN NAVAL FACILITIES PUG
WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75B

CH 385700N 1215019E
NPIC NO : - 62-J
COMIREX NO: [Redacted]

25X1
25X1

1371

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

DIA NBRG NDA06-5029-78 27 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087139

CHINGTAO NAVAL SHIPYARD

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75B

CH 360345N 1201740E
NPIC NO : - 13-E2
COMIREX NO:

25X1

CHINGTAO NAVAL SHIPYARD

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75E

CH 360345N 1201740E
NPIC NO : - 13-E2
COMIREX NO:

25X1

DIA NBRG NDA06-5030-78 27 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087140

WENCHOU SHIPYARD + NAVAL FACILITY

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75B

CH 280130N 1204006E
NPIC NO : - 39-D2
COMIREX NO: [Redacted]

25X1
25X1

WENCHOU SHIPYARD + NAVAL FACILITY

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75E

CH 280130N 1204006E
NPIC NO : - 39-D2
COMIREX NO: [Redacted]

25X1
25X1

DIA NBRG NDA06-5031-78 27 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087141

SHANGHAI SHIPYARD PUTUNG

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75E

CH 311504N 1213103E
NPIC NO : - 28-U5
COMIREX NO: [Redacted]

25X1
25X1

DIA NBRG NDA06-5032-78 27 APR 79 SEC CLASS: 05G MSN: 0001P ACCN: S087142

SHANGHAI SHIPYARD WEST

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 75E

CH 311524N 1213103E
NPIC NO : - 28-S5
COMIREX NO:

25X1

[Large Redacted Area]

25X1

NPIC MEMO [Redacted] 04 MAY 79 [Redacted] SEC CLASS: 13 MSN: 0002P ACCN: S087145

225X1

1372
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

SHIPS, ZHDANOV CRUISER MODIFICATIONS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:

CIA IRP IS10049K-79 APR 79 SEC CLASS: 14E MSN: 0027P ACCN: S08714625X1

INDUSTRY, AMMONIA PLANTS IMPORTED PROD IMPACT UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 30F COMIREX NO:

PHOTOGRAPHIC ANALYSIS INDICATES THAT THE SOVIET UNION'S PROGRAM TO IMPORT AMMONIA PLANTS BASED ON WESTERN TECHNOLOGY WILL ENABLE THE SOVIETS TO SURPASS THE US AS THE WORLD'S LEADER IN AMMONIA PRODUCTION CAPACITY BY 1980. AS PART OF A MAJOR PROGRAM WHICH BEGAN IN THE 1970S AND WILL CONTINUE INTO THE EARLY 1980S, THE USSR HAS COMPLETED SOME AND IS SCHEDULED TO BUILD THE REMAINDER OF 45 PLANNED LARGE-CAPACITY IMPORTED AMMONIA PLANTS. THE TOTAL PRODUCTION CAPACITY OF THESE PLANTS IS EXPECTED TO BE 19.6 METRIC TONS PER YEAR, WHICH IS ABOUT TWICE THE SOVIET'S 1970 AMMONIA PRODUCTION CAPACITY OF 9.0 MILLION METRIC TONS. THE SOVIET UNION ALSO EXPECTS TO COMPLETE A 2,250-KILOMETER AMMONIA PIPELINE SYSTEM WITH APPROXIMATELY 30 DISTRIBUTION POINTS AND TWO PORT FACILITIES TO HANDLE AMMONIA EXPORTS AND CHEMICAL IMPORTS.

THE RAPID GROWTH OF THE SOVIET AMMONIA INDUSTRY WILL IMPACT PRIMARILY IN TWO AREAS -- THE SOVIET FERTILIZER INDUSTRY AND THE WORLD AMMONIA MARKET. LARGE SCALE GROWTH IS EXPECTED IN THE PRODUCTION CAPACITY OF AMMONIA-RELATED FERTILIZERS -- NITROGEN FERTILIZER PRODUCTION CAPACITY (UREA AND AMMONIUM NITRATE) AND THE PRODUCTION CAPACITY OF AMMONIA-BASED COMPLEX FERTILIZERS. THE INFUSION OF LARGE QUANTITIES OF AMMONIA INTO THIS EXPANDING FERTILIZER INDUSTRY IS ESSENTIAL TO THE SOVIET UNION'S PRIORITY PROGRAM TO INCREASE AGRICULTURAL YIELDS. THE GROWTH IN AMMONIA PRODUCTION CAPACITY IS ALSO EXPECTED TO GENERATE INCREASING AMOUNTS OF EXCESS AMMONIA IN AN ALREADY DEPRESSED WORLD MARKET. MOST OF THE EXCESS AMMONIA PROBABLY WILL BE USED INITIALLY IN EXTENSIVE MULTINATIONAL COMPENSATION AGREEMENTS, INSURING THAT THE USSR WILL BE A MAJOR EXPORTER.

ACCORDING TO SOME SOVIET SOURCES, RELIANCE ON FOREIGN TECHNOLOGY FOR THE GROWTH OF THE SOVIET'S AMMONIA CAPACITY STEMS FROM THE FAILURE OF THE SOVIET MACHINE BUILDING INDUSTRY TO DEVELOP THE CHEMICAL PROCESSING EQUIPMENT NEEDED FOR LARGE-CAPACITY AMMONIA PLANTS. PHOTOGRAPHIC EVIDENCE INDICATES THAT THE SOVIETS MAY HAVE USED SOME OF THE TECHNOLOGY THEY ACQUIRED FROM THE PURCHASE OF FOREIGN AMMONIA PROCESSES AND EQUIPMENT TO DEVELOP THEIR OWN LARGE-CAPACITY AMMONIA PROCESS. THE SOVIETS HAVE MODIFIED THE AMMONIA-SYNTHESIS PROCESS AT SEVERAL OF THE AMMONIA PLANTS THAT USE A US PROCESS AND HAVE ADDED A COMBINATION OF SOVIET AND FOREIGN PROCESSING EQUIPMENT. THIS MODIFICATION SUGGESTS THAT THEY EXPERIMENTED WITH THE US PROCESS PRIOR TO PUTTING WHAT THEY CLAIM TO BE THEIR OWN LARGE-CAPACITY AMMONIA PROCESS INTO COMMERCIAL USE.

ARMY BIIR RAC24-5011-78 DEC 78 SEC CLASS: 05B MSN: 0017P ACCN: S087147

ELECTRONICS, BMP M-1975 BATTLEFIELD RADAR UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25A COMIREX NO:

1373
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS BASIC IMAGERY INTERPRETATION REPORT (BIIR) CONTAINS A DESCRIPTION OF THE BMP M-1975 (SMALL FRED). BMP M-1975 DESIGNATES THE VEHICLE WHILE SMALL FRED IS THE OFFICIAL DESIGNATION OF THE RADAR ONLY. BMP M-1975 (SMALL FRED) IS AN AMPHIBIOUS, LIGHTLY ARMORED TRACKED VEHICLE AND GENERALLY ACCEPTED AS A BATTLEFIELD SURVEILLANCE RADAR SYSTEM ASSOCIATED WITH SOVIET ARTILLERY. THE BMP M-1975 (SMALL FRED) IS A MODIFIED BMP-A WITH A RADAR MOUNTED ON A NEW, TWO-MAN TURRET. THIS BMP IS DEPLOYED IN THE USSR AND WITH THE GROUP OF SOVIET FORCES GERMANY (GSFG).

INCLUDED IN THIS BIIR ARE AN ORTHOGRAPHIC DRAWING WITH DIMENSIONS, NINE PHOTOGRAPHS, A PHYSICAL DESCRIPTION, A DISCUSSION OF THIS BMP'S DEPLOYMENT AND ROLE, ANALYST'S COMMENTS, AND SOURCE REFERENCE DATA. INFORMATION IS CURRENT AS OF 1 JULY 1978.

NPIC PIR PIR032-79 APR 79 SEC CLASS: 14B MSN: 0004P ACCN: S087148 25X1

KIEV AERODYNAMIC TEST FACILITY

WAC NO : BE/OBJ NO: NPIC NO : - 29-55 25X1
IDHS CODE: EPF CAT : 05G COMIREX NO:

THIS REPORT PROVIDES AN INITIAL DESCRIPTION OF THE KIEV AERODYNAMIC TEST FACILITY, USSR. IT INCLUDES A LOCATION MAP, TWO ANNOTATED PHOTOGRAPHS, AND A TABLE OF MENSURAL DATA.

25X1

NPIC PIR PIR024-79 APR 79 SEC CLASS: 25D MSN: 0006P ACCN: S087150 25X1

ELECTRONICS, DOME ANTS ICBM ASSOC BLDGS HARD UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

SINCE EARLY 1978, CONCRETE AND STEEL SUPPORT STRUCTURES FOR HARDENED DOME ANTENNAS HAVE BEEN CONSTRUCTED IN DEEP, SQUARE EXCAVATIONS NEAR MODIFIED TYPE III-X ICBM LAUNCH CONTROL FACILITIES AND ASSOCIATED LAUNCH SITES IN THE USSR. THIS CONSTRUCTION OF CONCRETE AND STEEL SUPPORT STRUCTURES CAN NOW BE DESCRIBED IN DETAIL BECAUSE OF REPEATED OBSERVATIONS OF THE CONSTRUCTION PROCESS. THIS REPORT PRESENTS

1.574
TOP SECRET CHESS RUFF

25X1
25X1

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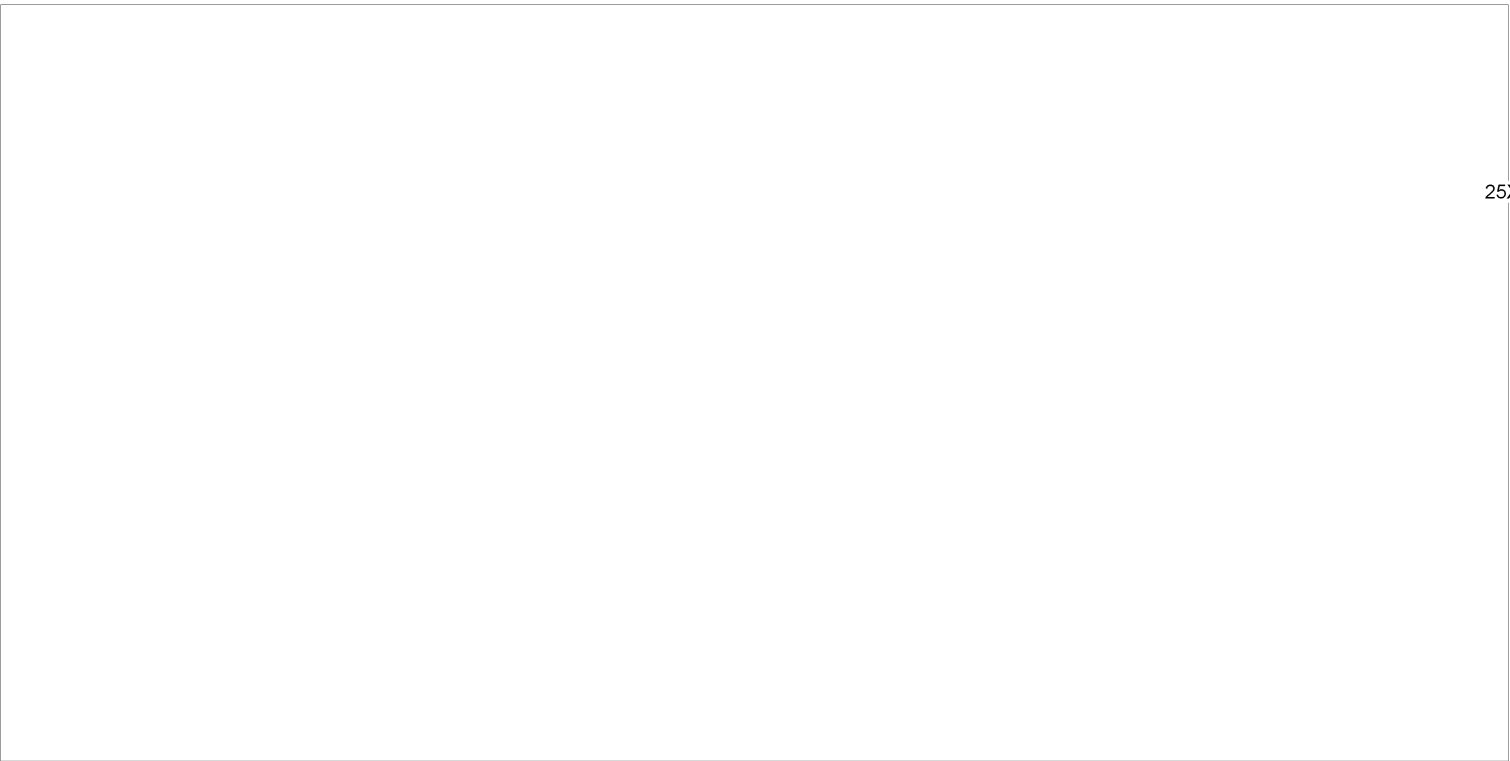


TOP SECRET CHESS RUFF



25X1

A DETAILED DESCRIPTION OF THE CONSTRUCTION OF THESE SUPPORT STRUCTURES AND CONTAINS A LOCATION MAP, LINE DRAWINGS, AND SEVEN ANNOTATED PHOTOGRAPHS.



25X1

DIA BIR RDA11-0005-78

APR 79



SEC CLASS: 14D

MSN:



0012P

ACCN: S0871

25X1 5X1

1375

TOP SECRET CHESS RUFF



25X1
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Y

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TOP SECRET CHESS RUFF

25X1

FANGCHI ARMS PLANT WSW
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 356

CH 281950N 1143110E
NPIC NO : - 109-C1
COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF THE FANG-CHI ARMS PLANT WSW LOCATED IN KIANGSI PROVINCE IN CENTRAL PEOPLE'S REPUBLIC OF CHINA (PRC). THIS ROAD SERVED PLANT ENCOMPASSES 99 HECTARES AND CONTAINS 256 BUILDINGS WITH 71,437 SQUARE METERS OF ROOF COVER. IT IS DIVIDED INTO EIGHT FUNCTIONAL AREAS ACCORDING TO THE PRINCIPAL OPERATION OR ACTIVITY BELIEVED TO BE OCCURRING IN EACH. THE FACILITY HAS THE CAPABILITY TO PRODUCE AND REPAIR WEAPONS THROUGH 19MM.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTURAL AND TABULAR FORM. IT INCLUDES A MAP, FIVE ANNOTATED PHOTOGRAPHS, AND TABLES. A REFERENCE DATA LIST FURNISHED IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC IS INCLUDED.*

DIA BIR RDA11-0013-78 APR 79 SEC CLASS: 14B MSN: 0006P

ACCN: S087154 25X1

CHELYABINSK STEEL + MACHINE TOOL PLANT ORDZ 2
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 30C

UR 550849N 0612830E
NPIC NO : - 3-E
COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED, ANALYSIS OF CHELYABINSK STEEL AND MACHINE TOOL PLANT ORDZ, USSR. THE PLANT COVERS APPROXIMATELY 152 HECTARES AND INCLUDES THE FOLLOWING FUNCTIONAL AREAS: STORAGE/SUPPORT; VEHICLE STORAGE/MAINTENANCE; FABRICATION/ASSEMBLY; STEEL PROCESSING; ADMINISTRATION; BALLISTICS TESTING; SHIPPING/RECEIVING; HEATING; WATER TREATMENT AND POL STORAGE. THE INSTALLATION CONTAINS 412,211 SQUARE METERS OF ROOF COVER, INCLUDING EIGHT PRODUCTION-RELATED BUILDINGS WITH A TOTAL ROOF AREA OF 265,674 SQUARE METERS.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTURAL AND TABULAR FORM. IT INCLUDES A MAP, TWO ANNOTATED PHOTOGRAPHS AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

CIA IRP IS10057K-79 APR 79 SEC CLASS: 14E MSN: 0020P

ACCN: S087156 25X1

SHIPS, ATTACK SUBMARINE CONSTRUCTION PROGRAMS UR

1376
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:

THIS REPORT PRESENTS AN ANALYSIS BASED ON PHOTOGRAPHY OF THE STATUS OF ATTACK SUBMARINE PRODUCTION IN THE USSR. THE DISCUSSION OF EACH CLASS OF ATTACK SUBMARINE STATES THE TOTAL NUMBER OF THAT CLASS OF SUBMARINES PRODUCED TO DATE; THE CURRENT YEARLY CONSTRUCTION RATE OF THAT CLASS; THE SHIPYARD(S) INVOLVED IN THE CONSTRUCTION OF THAT CLASS; AND AN ESTIMATE OF FUTURE CONSTRUCTION RATES.

SELECTED PHOTOGRAPHY FROM THE PERIOD BETWEEN MID-1967 AND 31 DECEMBER 1978 HAS BEEN USED IN THIS REPORT. ANALYSIS OF THIS PHOTOGRAPHY SHOWS THAT THE SOVIETS ARE CURRENTLY LAUNCHING FOUR OR FIVE SSNS AND THREE SSS PER YEAR. SSN PRODUCTION IS OCCURRING AT ALL OF THE FIVE SOVIET SHIPYARDS CURRENTLY ENGAGED IN SUBMARINE CONSTRUCTION--A-CLASS SSNS AT LENINGRAD SHIPYARD SUDOMEKH 196 AND SEVERODVINSK SHIPYARD 402, AND V-II-AND V-III-CLASS SSNS AT GORKIY SHIPYARD 112, LENINGRAD SHIPYARD ADMIRALTY 194, AND KOMSOMOLSK SHIPYARD AMUR 199. SSS ARE BEING PRODUCED AT TWO OF THE FIVE SUBMARINE CONSTRUCTION YARDS-- F-CLASS SSS AT SUDOMEKH SHIPYARD 196 AND T-CLASS SSS AT GORKIY SHIPYARD 112.

CIA IRP 1510066J-79 APR 79 SEC CLASS: 25B MSN: 0012P ACCN: 508725X1

MILITARY, COMMUNICATIONS RELAY BATTALIONS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 35 COMIREX NO:

A RECENT PHOTOGRAPHIC STUDY OF SOVIET ARMY AND ARMY CORPS SIGNAL REGIMENTS HAS REVEALED THE EXISTENCE OF ANOTHER TYPE OF SOVIET COMMUNICATIONS UNIT--THE COMMUNICATIONS RELAY BATTALION. ALTHOUGH USUALLY COLOCATED WITH ARMY AND ARMY CORPS SIGNAL REGIMENTS, THESE NEWLY IDENTIFIED BATTALIONS ARE NOT SUBORDINATE TO THE SIGNAL REGIMENTS BUT APPARENTLY ARE SUBORDINATE TO THE ARMY AND ARMY CORPS HEADQUARTERS. THEIR ORGANIZATION AND EQUIPMENT HOLDINGS INDICATE THAT THEY PROVIDE RELAY AND WIRE COMMUNICATIONS LINKS BETWEEN ARMY AND ARMY CORPS COMMAND POSTS AND THEIR SUBORDINATE ELEMENTS. BECAUSE MANY ARE COLOCATED WITH SIGNAL REGIMENTS, THE COMMUNICATIONS RELAY BATTALIONS HAVE ONLY RECENTLY BEEN IDENTIFIED AS SEPARATE UNITS. REANALYSIS OF PHOTOGRAPHY, HOWEVER, INDICATES THAT THEY HAVE BEEN IN EXISTENCE FOR OVER 10 YEARS.

TO DATE, 10 CONFIRMED COMMUNICATIONS RELAY BATTALIONS HAVE BEEN IDENTIFIED--FOUR WITH FOUR ARMIES IN THE WESTERN USSR AND SIX WITH FOUR ARMIES AND TWO ARMY CORPS ALONG THE SINO-SOVIET BORDER. FIVE MORE UNITS WHICH MAY BE ARMY- OR ARMY-CORPS-ASSOCIATED COMMUNICATIONS RELAY BATTALIONS HAVE ALSO BEEN IDENTIFIED. BECAUSE OF THE APPARENT FUNCTION OF COMMUNICATIONS RELAY BATTALIONS, IT IS BELIEVED THAT ONE SUCH BATTALION MAY BE SUBORDINATE TO EACH SOVIET ARMY AND ARMY CORPS. MOST COMMUNICATIONS RELAY BATTALIONS HAVE BETWEEN 70 AND 100 VEHICLES ORGANIZED INTO A RADIO RELAY COMPANY, A TROPOSCATTER RELAY COMPANY, A WIRE COMMUNICATIONS COMPANY, A CABLE-LAYING COMPANY, A TRANSPORT COMPANY, AND HEADQUARTERS AND SERVICES. RECENTLY, THE R-133 TWIN EAR TROPOSCATTER RELAY STATION AND THE TWIN EAR-ASSOCIATED TA-FL-01 MAST TRUCK HAVE BEEN INTRODUCED INTO THESE BATTALIONS.

25X1

1377
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1
25X1

DIA IIM 5B1-72030-79 03 MAY 79 SEC CLASS: 14B MSN: 0003P ACCN: S087160
CHIRPAN AMMUNITION DEPOT SE 502 BU 421200N 0252100E
WAC NO : BE/OBJ NO: NPIC NO : - 223-A2
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B1-72153-79 04 MAY 79 SEC CLASS: 14B MSN: 0004P ACCN: S087163
KIRILLOVSKOYE AMMUNITION DEPOT PERKYARVI UR 602840N 0291500E
WAC NO : BE/OBJ NO: NPIC NO : - 58
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B1-72168-79 07 MAY 79 SEC CLASS: 14B MSN: 0003P ACCN: S087165
KAGUL ARMY BARRACKS AL1 RESERVE EQUIP STORAGE UR 455345N 0281211E
WAC NO : BE/OBJ NO: NPIC NO : - 35-B
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

1378
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Block]

25X1

DIA IIM 561-72161-79 09 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: S087125X1

PECS AMMUNITION STORAGE FACILITY 503 SW HU 460150N 0181020E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO: [Redacted]

25X1

[Large Redacted Block]

25X1

DIA IIM 561-72160-79 09 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: S087125X1

1379
TOP SECRET CHESS RUFF [Redacted]

[Redacted] 25X1
25X1

TOP SECRET CHESS RUFF

25X1

SZOMBATHLY AMMUNITION DEPOT KOSZEG 501 HU 472008N 0163550E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-72159-79 07 MAY 79 SEC CLASS: 14B MSN: 0003P

ACCN: S087172

25X1

ZALAEGERSZEG AMMUNITION STORAGE FACILITY 504 HU 465137N 0165054F
WAC NO : BE/OBJ NO: NPIC NO : - 71-A1
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-72155-79 07 MAY 79 SEC CLASS: 14B MSN: 0003P

ACCN: S087173

25X1

ZALAEGERSZEG AMMUNITION STORAGE FACILITY 505 HU 465410N 0165158E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-72162-79 07 MAY 79 SEC CLASS: 14B MSN: 0003P

ACCN: S087174

25X1

GYOR AMMUNITION STORAGE FACILITY 501 HU 474202N 0174230E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-72088-79 08 MAY 79 SEC CLASS: 14 MSN: 0003P

ACCN: S087175

25X1

ARMAVIR AVTOKOLONNA 119b UR 445908N 0410525E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 85A COMIREX NO:

25X1

DIA NBRG NDA07-5237-78 09 MAY 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087176

SEMIPALATINSK ARMY BARRACKS AL1/HQ ARTY DIV UR 502310N 0801100E
WAC NO : BE/OBJ NO: NPIC NO : - 8-B1
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5240-78 09 MAY 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087177

BIYSK ARMY TRAINING AREA TA1 UR 523036N 0852110E
WAC NO : BE/OBJ NO: NPIC NO : - 6-C
IDHS CODE: EPF CAT : 35b COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5235-78 11 MAY 79 SEC CLASS: 056 MSN: 0001P

ACCN: S087178

KHABAROVSK MILITARY BARRACKS AL1 + HQ MRD UR 482815N 1350610E

TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted] 25X1

	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 7-22		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA	NBRG	NDA07-5234-78	11 MAY 79	SEC CLASS: 05G MSN: 0001P	ACCN: S087179
	NHABAROVSK ARMY BARRACKS AL30			UR 482134N 1350333E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 7-D3		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA	NBRG	NDA07-5235-78	11 MAY 79	SEC CLASS: 05G MSN: 0001P	ACCN: S087180
	ANASTASYEVKA ARMY BARRACKS AL1/TRNG AREA TA1			UR 483432N 1353720E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 41-B5		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
	ANASTASYEVKA ARMY BARRACKS AL1/TRNG AREA TA1			UR 483432N 1353720E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 41-B5		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35B	COMIREX NO: [Redacted]		25X1
DIA	NBRG	NDA07-5236-78	11 MAY 79	SEC CLASS: 05G MSN: 0001P	ACCN: S087181
	GASTELLO ARMY BARRACKS AL1			UR 490610N 1425700E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 18-A2		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA	NBRG	NDA07-5238-78	11 MAY 79	SEC CLASS: 05G MSN: 0001P	ACCN: S087182
	YUZHNO SAKHALINSK ARMY BKS AL9/TRNG AREA TA1			UR 465600N 1423700E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		
	YUZHNO SAKHALINSK ARMY BKS AL9/TRNG AREA TA1			UR 465600N 1423700E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35B	COMIREX NO: [Redacted]		
DIA	NBRG	NDA07-5239-78	11 MAY 79	SEC CLASS: 05G MSN: 0001P	ACCN: S087183
	YUZHNO SAKHALINSK MILITARY BKS AL1 + HQ MRD			UR 465904N 1424516E	
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 41-K		25X1
	IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted] 25X1
25X1

TOP SECRET CHESS RUFF [redacted]

25X1

[redacted]

25X1

DIA	NBRG	NDA06-5018-78	16 MAY 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087186
		PETROPVLOVSK SHIPYARD 412					
		WAC NO : [redacted]	BE/OBJ NO: [redacted]		UR 525743N 1584117E		
		IDHS CODE: [redacted]	EPF CAT : 75E		NPIC NO : - 11-S		25X1
					COMIREX NO: [redacted]		25X1
DIA	NBRG	NDA06-5019-78	16 MAY 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087187
		VLADIVOSTOK NAVAL BASE + REPAIR YARD DIOMID					
		WAC NO : [redacted]	BE/OBJ NO: [redacted]		UR 430530N 1315340E		
		IDHS CODE: [redacted]	EPF CAT : 75E		NPIC NO : - 48-S1		25X1
					COMIREX NO: [redacted]		25X1
		VLADIVOSTOK NAVAL BASE + REPAIR YARD DIOMID			UR 430530N 1315340E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]		NPIC NO : - 48-S1		25X1
		IDHS CODE: [redacted]	EPF CAT : 75B		COMIREX NO: [redacted]		25X1
DIA	NBRG	NDA06-5020-78	16 MAY 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087188
		VLADIVOSTOK NAVAL INFANTRY INSTALLATION 1					
		WAC NO : [redacted]	BE/OBJ NO: [redacted]		UR 430910N 1315830E		
		IDHS CODE: [redacted]	EPF CAT : 75		NPIC NO : - 48-U2		25X1
					COMIREX NO: [redacted]		25X1
DIA	NBRG	NDA06-5021-78	16 MAY 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087189
		SLAVYANKA SHIP REPAIR YARD					
		WAC NO : [redacted]	BE/OBJ NO: [redacted]		UR 425200N 1312326E		
		IDHS CODE: [redacted]	EPF CAT : 75E		NPIC NO : - 37-A3		25X1
					COMIREX NO: [redacted]		25X1
DIA	NBRG	NDA06-5022-78	16 MAY 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087190
		KHABAROVSK SHIPYARD AMURFLOT					
		WAC NO : [redacted]	BE/OBJ NO: [redacted]		UR 483440N 1350206E		
		IDHS CODE: [redacted]	EPF CAT : 75E		NPIC NO : - 7-F		25X1
					COMIREX NO: [redacted]		25X1
DIA	NBRG	NDA06-5023-78	16 MAY 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087191

1382
TOP SECRET CHESS RUFF [redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

PETROPAVLOVSK NAVAL BASE RAKOVAYA GUBA NORTH

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75B

UR 525911N 1583932E
NPIC NO : - 12-N3
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5048-78 11 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087192

PECHENGA SUBMARINE BASE LINAKHAMARI

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75A

UR 693803N 0312213E
NPIC NO : - 23
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5049-78 11 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087193

SEVEROUVINSK NAVAL BASE WEST

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75B

UR 643420N 0394551E
NPIC NO : - 7-L
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5050-78 11 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087194

RIGA NAVAL BASE + SHIPYARD BOLDERAJA

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75B

UR 570302N 0240146E
NPIC NO : - 63-L
COMIREX NO: []

25X1
25X1

RIGA NAVAL BASE + SHIPYARD BOLDERAJA

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75E

UR 570302N 0240146E
NPIC NO : - 63-L
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5051-78 11 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087195

KOLPINO SHIPYARD MIDDLE NEVA

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75E

UR 594716N 0303754E
NPIC NO : - 36-J1
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5052-78 11 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087196

POTI NAVAL BASE + SHIPYARD YELYAVA 201

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75B

UR 420935N 0413926E
NPIC NO : - 12-H
COMIREX NO: []

25X1
25X1

POTI NAVAL BASE + SHIPYARD YELYAVA 201

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75E

UR 420935N 0413926E
NPIC NO : - 12-H
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5015-78 18 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087197

OCHAKOV NAVAL BASE

UR 463700N 0313300E

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75B

NPIC NO : - 50-A3
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5016-78 18 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087198

KHERSON SHIPYARD

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75E

UR 463647N 0323534E
NPIC NO : - 38-A
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5017-78 18 MAY 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087199

KHERSON SHIPYARD KUYBYSHEV

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75E

UR 463715N 0323630E
NPIC NO : - 38-A1
COMIREX NO: []

25X1
25X1

25X1

NPIC SR

SR028-79

MAY 79

Z20004-79

SEC CLASS: 05B MSN:

0003P

ACCN: S087203

VORONEZH ELECTRONICS TEST FACILITY SUSP IDENT

UR 514532N 0391732E

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 25E

NPIC NO : -
COMIREX NO: []

25X1
25X1

1384

TOP SECRET CHESS RUFF

25X1
25X1

[REDACTED] TOP SECRET CHESS RUFF [REDACTED] [REDACTED]

25X1

ANALYSIS OF SATELLITE IMAGERY OF THE VORONEZH AREA HAS REVEALED THE LOCATION OF AN AR-EL-01 TEST SITE AT 51-45-32N 039-17-32E, APPROXIMATELY 6.5 NAUTICAL MILES (NM) NORTHEAST OF VORONEZH AND 290 NM SOUTHWEST OF MOSCOW. THE AR-EL-01 IS A CONTROL VAN FOR A MOBILE HIGH-FREQUENCY DIRECTION-FINDING SYSTEM AND IS PRODUCED AT THE VORONEZH MINING AND RADIO EQUIPMENT VEHICLE PLANT.

THE SECURED AR-EL-01 TEST SITE CONSISTS OF AN OPEN FIELD TEST AREA, APPROXIMATELY 1,074 BY 512 METERS, AND A TEST SUPPORT AREA WITH ONE SUPPORT BUILDING AND ONE STORAGE SHED. GROUND SCARRING INDICATES THAT AT LEAST FOUR TEST AREAS ARE USED.

[REDACTED] 25X1

TOP SECRET CHESS RUFF [REDACTED] [REDACTED]

25X1

25X1

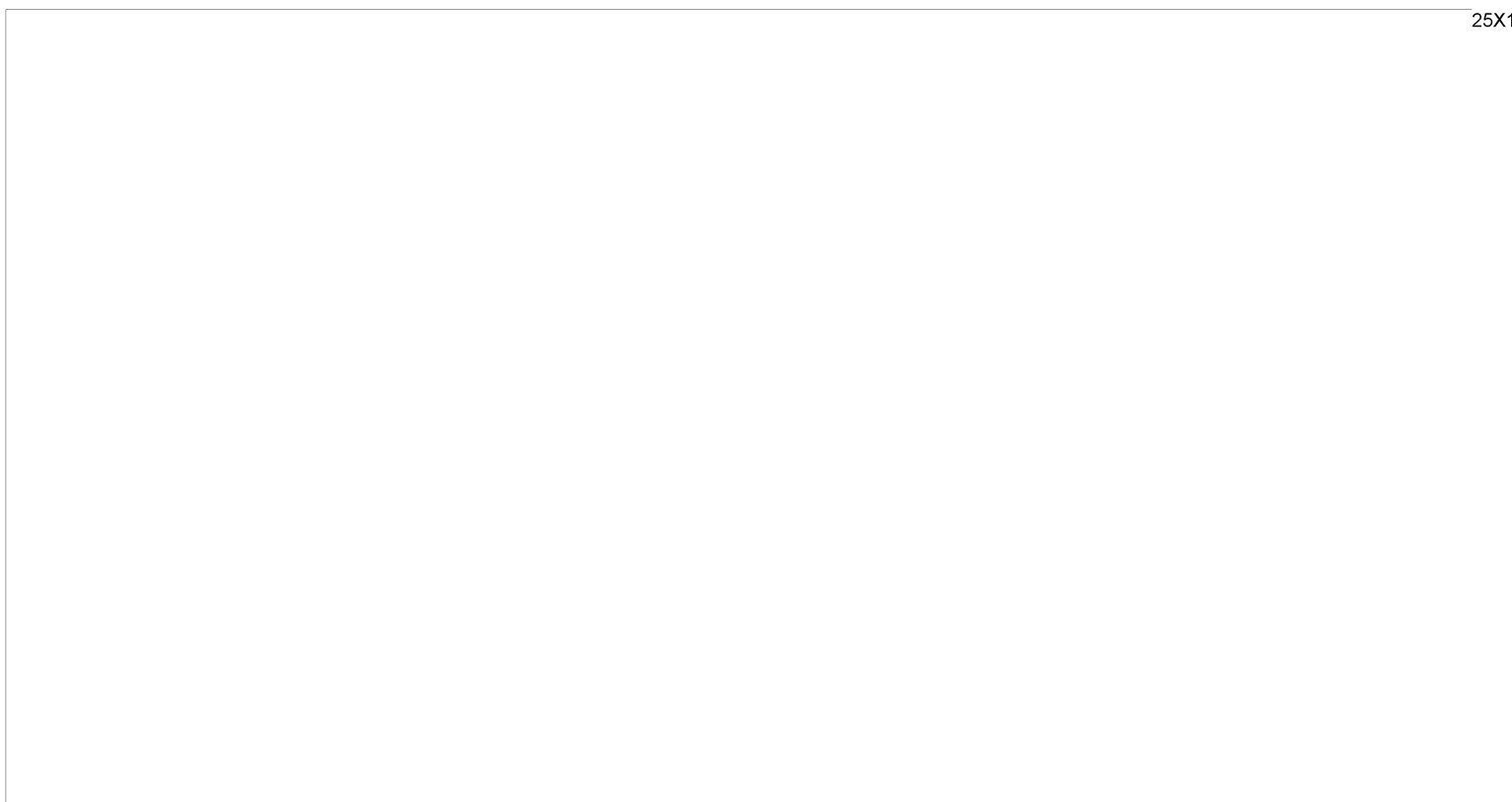
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TOP SECRET CHESS RUFF

25X1^{25X1}



25X1

NPIC PIR

PIR023-79

MAY 79

SEC CLASS: 25B MSN:

0018P

ACCN: S087212

25X1

1388
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

AIRCRAFT, AIRBORNE COMMAND RLTD NATL LEVEL	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 05D	COMIREX NO:
AIRCRAFT, CLASSIC IL-62 COMSAT MODIFICATION	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 05D	COMIREX NO:
AIRCRAFT, CRUSTY TU-134 COMSAT MODIFICATION	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 05D	COMIREX NO:
AIRCRAFT, CRUSTY TU-134 VIP MODIFICATION	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 05D	COMIREX NO:
AIRCRAFT, COOT IL-18 AIRBORNE COMD POST MODIF	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 05D	COMIREX NO:
AIRCRAFT, COOT IL-18 COMMO RELAY MODIFICATION	UR
WAC NO : BE/OBJ NO:	NPIC NO : -
IDHS CODE: EPF CAT : 05D	COMIREX NO:
MOSKVA/SHCHELKOVO AIRFIELD VIP SUPPORT A/C	UR 555248N 0380347E
WAC NO : BE/OBJ NO:	NPIC NO : - 51
IDHS CODE: EPF CAT : 05A	COMIREX NO:
MOSKVA/VNUKOVO AIRFIELD VIP SUPPORT AIRCRAFT	UR 553529N 0371543E
WAC NO : BE/OBJ NO:	NPIC NO : - 46-0
IDHS CODE: EPF CAT : 05A	COMIREX NO:

25X1
25X1

25X1
25X1

THROUGH ANALYSIS OF OVERHEAD AND HAND-HELD IMAGERY AND THROUGH SIGINT INFORMATION, FIVE TYPES OF SOVIET AIRCRAFT RELATED TO NATIONAL-LEVEL VIP SUPPORT AND/OR AIRBORNE COMMAND HAVE BEEN IDENTIFIED. THESE AIRCRAFT HAVE BEEN TEMPORARILY DESIGNATED AS FOLLOWS: CLASSIC COMMUNICATIONS SATELLITE MODIFIED (COMSAT MOD), CRUSTY COMSAT MOD, CRUSTY VIP MOD, COOT AIRBORNE COMMAND POST MODIFIED (ACP MOD), AND COOT RELAY MOD. THIS REPORT PRESENTS KEY PHOTOGRAPHIC SIGNATURES AND OVERHEAD OR HAND-HELD IMAGERY OF EACH AIRCRAFT AND A BRIEF DISCUSSION AND IMAGERY OF MOSCOW/SHCHELKOVO AND MOSCOW/VNUKOVO AIRFIELDS, USSR WHERE ALL FIVE OF THESE TYPES OF AIRCRAFT HAVE BEEN OBSERVED. THROUGH SIGINT, MOSCOW/SHCHELKOVO HAS BEEN IDENTIFIED AS THE MAJOR AIRFIELD SUPPORTING SOVIET MILITARY AIRBORNE-COMMAND-RELATED ACTIVITY AND MOSCOW/VNUKOVO HAS BEEN IDENTIFIED AS THE MAJOR AIRFIELD SUPPORTING SOVIET POLITICAL VIP AIR TRANSPORT OPERATIONS.

25X1

TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

CIA BIIR RCS13-0005-79 APR 79 SEC CLASS: 14E MSN: 0038P ACCN: S087215 25X1

INDUSTRY, ELECTRIC POWER PLANTS CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30E COMIREX NO:

DURING THE THREE-YEAR PERIOD 1976-78, THE CHINESE EXPANDED THEIR ELECTRIC POWER GENERATING CAPACITY BY ALMOST ONE-THIRD. FORTY MAJOR NEW PLANTS WERE COMPLETED AND 51 EXISTING ONES WERE EXPANDED, FOR AN INCREASE OF ABOUT 9,500 MEGAWATTS (MW) OVER THE ESTIMATED GENERATING CAPACITY AT THE END OF 1975. MOST OF THE INCREASE WAS IN THERMAL POWER. THROUGHOUT THIS PERIOD THE CHINESE CONTINUED TO EMPHASIZE THE

1390
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

INSTALLATION OF LARGE-SIZE GENERATORS AT THERMAL POWER PLANTS -- MOSTLY 100-, 125-, AND 200-MW UNITS. IT APPEARS THAT THE CHINESE HAVE NOT PERFECTED THE OPERATION OF THEIR INDIGENOUSLY DESIGNED 300-MW TURBINE-GENERATOR UNIT, AND THEY HAVE PURCHASED TWO 300-MW TURBINE-GENERATORS FROM THE FRENCH. THE MAJORITY OF CHINA'S THERMAL PLANTS ARE FIRED WITH COAL, MOST OF THE REST USE OIL, AND ONLY TWO PLANTS -- IN SZECHWAN -- ARE GAS FIRED. A NUMBER OF THERMAL PLANTS CAN BURN EITHER COAL OR OIL.

A TOTAL OF 291 MAJOR THERMAL AND HYDROELECTRIC POWER PLANTS (24-MW OR MORE CAPACITY) HAVE BEEN IDENTIFIED IN CHINA. NO CAPACITY FIGURES ARE AVAILABLE FOR 12 OF THE HYDROELECTRIC PLANTS, BUT THE TOTAL GENERATING CAPACITY OF THE REMAINING 279 PLANTS IS ESTIMATED FROM PHOTOGRAPHY AND OTHER SOURCES TO BE 40,840 MW (30,070 MW THERMAL AND 10,770 MW HYDROELECTRIC). ANOTHER 3,000 MW REPORTEDLY ARE GENERATED BY ABOUT 80,000 SMALL HYDROELECTRIC POWER PLANTS. AN ADDITIONAL UNDETERMINED BUT RELATIVELY SMALL AMOUNT IS GENERATED BY NUMEROUS SMALL THERMAL POWER PLANTS.

BETWEEN JANUARY 1976 AND DECEMBER 1978, 23 NEW THERMAL POWER PLANTS WERE COMPLETED AND 43 EXISTING PLANTS WERE EXPANDED, INCREASING THE THERMAL ELECTRIC GENERATING CAPACITY BY ABOUT 7,445 MW. ANOTHER 2,050-MW INCREASE IN ELECTRIC GENERATING CAPACITY CAN BE ATTRIBUTED TO HYDROELECTRIC POWER PLANTS. SEVENTEEN NEW HYDROELECTRIC PLANTS WERE COMPLETED AND EIGHT EXISTING ONES WERE ENLARGED DURING THIS PERIOD.

AN ADDITIONAL 33 THERMAL AND 16 HYDROELECTRIC POWER PLANTS WERE BEING EXPANDED OR WERE STILL UNDER CONSTRUCTION AT THE END OF 1978. FOR THE NEAR FUTURE, THE CHINESE HAVE SAID THEY PLAN TO INCREASE THEIR GENERATING CAPACITY TO 100,000 MW DURING THE CURRENT TEN-YEAR PLAN. THIS WOULD MEAN MORE THAN DOUBLING PRESENT CAPACITY BY 1985 -- WHICH, BASED ON PROJECTS NOW UNDER WAY AND PAST PERFORMANCE, IS PROBABLY BEYOND CHINA'S CAPABILITY.

25X1

BIA BIR RDA05-0018-78 APR 79 SEC CLASS: 14D MSN: 0020P ACCN: 508725X1

SUCHOU AIRFIELD WEST 2	WAC NO :	BE/OBJ NO :	CH 311544N 1202408E	
	IDHS CODE :	EPF CAT : 05A	NPIC NO : - 42-C3	25X1
SUCHOU AIRFIELD WEST 2 SUPPORT FACILITY A U/G			COMIREX NO :	25X1
	WAC NO :	BE/OBJ NO :	CH 311627N 1202500E	
	IDHS CODE :	EPF CAT : 05A	NPIC NO : -	25X1
SUCHOU AIRFIELD WEST 2 SUPPORT FACIL A1 U/G			COMIREX NO :	
	WAC NO :	BE/OBJ NO :	CH 311626N 1202442E	
	IDHS CODE :	EPF CAT : 05A	NPIC NO : -	25X1
SUCHOU AIRFIELD WEST 2 SUPPORT FACIL A2 U/G			COMIREX NO :	
			CH 311627N 1202517E	

1391
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : USA COMIREX NO:

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF SU-CHOU WEST 2 AIRFIELD AND RELATED FACILITIES DURING THE PERIOD FEBRUARY 1972 TO MARCH 1978. THIS INSTALLATION, LOCATED IN NAN-CHING PROVINCE IN SOUTH-CENTRAL PEOPLE'S REPUBLIC OF CHINA, IS A JET-CAPABLE AIRFIELD. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 2,204M X 49M CONCRETE RUNWAY, TAXIWAYS AND PARKING FACILITIES, AN UNDERGROUND AIRCRAFT STORAGE FACILITY, AN AMMUNITION STORAGE AREA, POL STORAGE WITH AN APPROXIMATE CAPACITY OF 3,135,035 LITERS, AIRCRAFT MAINTENANCE, ACCOMMODATIONS, AND SUPPORT FACILITIES.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP AND 13 ANNOTATED PHOTOGRAPHS. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC IS INCLUDED.

NPIC IIR IIR018-79 11 MAY 79 [] SEC CLASS: 14B MSN: [] 0003P

ACCN: S087218

25X1

MOZYR MOBILE IRBM BASE/TRNG FAC SS-20 WHD CAN UR 520210N 0291108E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 110-E1
IDHS CODE: [] EPF CAT : 40B COMIREX NO: []

25X1

25X1

[] POSSIBLE SS-20 MIRV WARHEAD CANISTERS WERE IDENTIFIED IN THE []
[] AT MOZYR MOBILE IRBM BASE TRAINING FACILITY, USSR.

25X1

25X1

25X1

1392
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Redacted]

25X1

DIA IIM 5b1-72195-79 14 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: 5087225X1

ORASTIE AMMUNITION DEPOT 502

RO 455012N 0231002E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5b1-72169-79 14 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: 5087225X1

GRUDOVO AMMUNITION STORAGE FACILITY 502

BU 422019N 0270932E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5b1-72178-79 14 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: 5087225X1

KALOYANOVETS AMMUNITION STORAGE FACILITY

BU 422010N 0253410E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5b1-72176-79 14 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: 5087225X1

IVAYLOVGRAD AMMUNITION STORAGE FACILITY 501

BU 413113N 0260647E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 84
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5b1-72199-79 14 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: 5087225X1

KAZANLUK AMMUNITION STORAGE FACILITY 505

BU 423325N 0252203F

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 34-63
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

1393
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

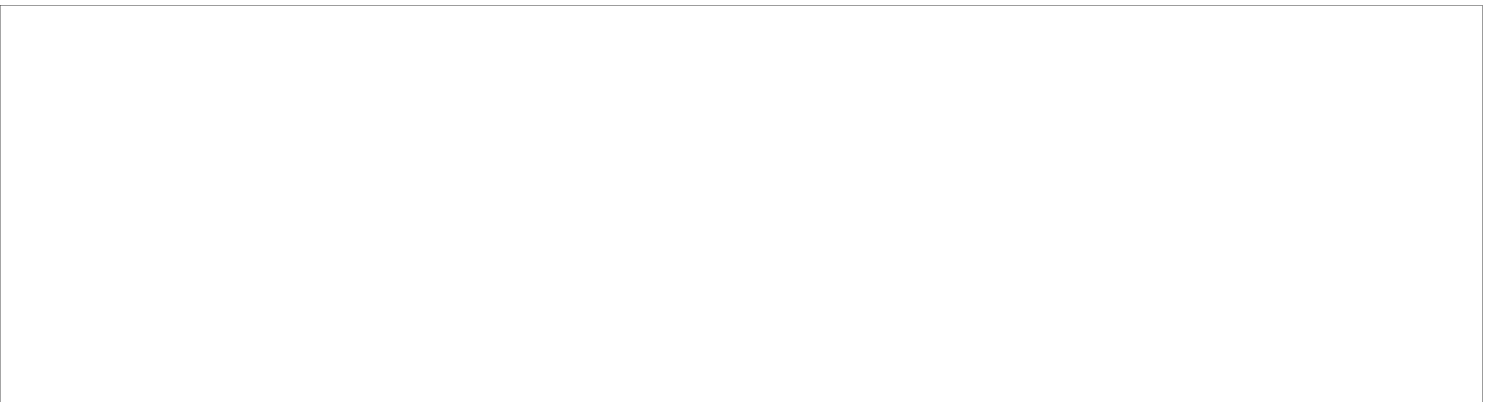
25X1

DIA IIM 5B1-72196-79 14 MAY 79 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S087229 25X1

POLYANOVGRAD AMMUNITION STORAGE FACILITY 503 BU 423842N 0270017E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 50-A 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

DIA IIM 5B1-72249-79 11 MAY 79 [] SEC CLASS: 14 MSN: [] 0012P ACCN: S087230 25X1

VASILYEVKA CIVIL DEFENSE HQ U/G SUSP UR 472624N 0351710E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
IDHS CODE: [] EPF CAT : 10A COMIREX NO:



25X1

DIA IIM 5B1-72262-79 16 MAY 79 [] SEC CLASS: 14B MSN: [] 0004P ACCN: S087234 25X1

PILAWA MILITARY STORAGE FACILITY PL 515644N 0213203E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

DIA IIM 5B1-72208-79 16 MAY 79 [] SEC CLASS: 14 MSN: [] 0004P ACCN: S087239 25X1

ULAANBAATAR AMMUNITION DEPOT DA1 MG 475540N 1070315F
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1

1394
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 561-72337-79 17 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P

ACCN: 50872425X1

PLOPONI AMMUNITION DEPOT NORTH

WAC NO : [Redacted] BE/OBJ NO: [Redacted] RO 450455N 0255911E
IDHS CODE: [Redacted] EPF CAT : 35F NPIC NO : - 173
COMIREX NO:

25X15X1

DIA IIM 561-72171-79 17 MAY 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0003P

ACCN: 50872425X1

ARMAVIR AVTOKOLONNA 1715

WAC NO : [Redacted] BE/OBJ NO: [Redacted] UR 445855N 0410640E
IDHS CODE: [Redacted] EPF CAT : 85A NPIC NO : -
COMIREX NO:

25X1

DIA IIM 561-72170-79 17 MAY 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0003P

ACCN: 50872425X1

SEMIPALATINSK AVTOKOLONNA 2584

WAC NO : [Redacted] BE/OBJ NO: [Redacted] UR 502644N 0801417E
IDHS CODE: [Redacted] EPF CAT : 85A NPIC NO : -
COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 561-72248-79 15 MAY 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0006P

ACCN: 50872425X1

NOVAKY AMMUNITION + GENERAL DEPOT

WAC NO : [Redacted] BE/OBJ NO: [Redacted] CZ 484533N 0183157E
IDHS CODE: [Redacted] EPF CAT : 35F NPIC NO : - 114-C
COMIREX NO: [Redacted]

25X1

25X1

[Redacted]

25X1

DIA IIM 561-72292-79 17 MAY 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P

ACCN: 50872425X1

SEVASTOPOL ORDNANCE DEPOT D02

WAC NO : [Redacted] BE/OBJ NO: [Redacted] UR 443833N 0333544E
IDHS CODE: [Redacted] EPF CAT : 35F NPIC NO : -
COMIREX NO:

25X1

1395
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

TOP SECRET CHESS RUFF

25X1

DIA	IIM	5B1-72289-79	21 MAY 79	[]	SEC CLASS: 14B	MSN: []	0003P	ACCN: S087247	25X1
		KRUMOVGRAD AMMUNITION STORAGE DEPOT NNW			BU	412918N 0253808E			
		WAC NO :	[]	BE/OBJ NO: []	NPIC NO	: - 224-A			25X1
		IDHS CODE:	[]	EPF CAT : 35F	COMIREX NO:				
DIA	IIM	5B1-72221-79	21 MAY 79	[]	SEC CLASS: 14B	MSN: []	0003P	ACCN: S087248	25X1
		KHARMANLI AMMUNITION STORAGE DEPOT WNW 503			BU	415630N 0255140E			
		WAC NO :	[]	BE/OBJ NO: []	NPIC NO	: - 146			25X1
		IDHS CODE:	[]	EPF CAT : 35F	COMIREX NO:				
DIA	IIM	5B1-72207-79	21 MAY 79	[]	SEC CLASS: 14B	MSN: []	0003P	ACCN: S087249	25X1
		KHARMANLI AMMUNITION DUMP SE 504			BU	415505N 0255445E			
		WAC NO :	[]	BE/OBJ NO: []	NPIC NO	: - 146-A			25X1
		IDHS CODE:	[]	EPF CAT : 35F	COMIREX NO:				
DIA	IIM	5B1-72267-79	21 MAY 79	[]	SEC CLASS: 14B	MSN: []	0003P	ACCN: S087250	25X1
		KHASKOVO AMMUNITION DEPOT			BU	415255N 0253240E			
		WAC NO :	[]	BE/OBJ NO: []	NPIC NO	: - 35-C1			25X1
		IDHS CODE:	[]	EPF CAT : 35F	COMIREX NO:				
DIA	IIM	5B1-72371-79	21 MAY 79	[]	SEC CLASS: 14B	MSN: []	0003P	ACCN: S087251	25X1
		HANU CONACHE AMMUNITION DEPOT 4			RO	453513N 0273403E			
		WAC NO :	[]	BE/OBJ NO: []	NPIC NO	: - 147			25X1
		IDHS CODE:	[]	EPF CAT : 35F	COMIREX NO:				

25X1

1396
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO

21 MAY 79

SEC CLASS: 14B MSN:

0002P

ACCN: 5087263

25X1

DICKSON TROPOSCATTER STATION

WAC NO :

BE/OBJ NO:

UR 733030N 0803030E

NPIC NO : - 1-F4

IDHS CODE:

EPF CAT : 25D

COMIREX NO:

25X1

VORONTSOVO TROPOSCATTER STATION

WAC NO :

BE/OBJ NO:

UR 714320N 0833320E

NPIC NO : - 18

25X1

1398

TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

IDHS CODE: [Redacted]	EPF CAT : 25D	COMIREX NO:	25X1
KARAUL TROPOSCATTER STATION		UR 700448N 0831551E	
WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 4-A	25X1.1
IDHS CODE: [Redacted]	EPF CAT : 25D	COMIREX NO:	
NORILSK RADIO COMMUNICATIONS + TROPO STA WEST		UR 691900N 0875500E	
WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 2-A4	25X1
IDHS CODE: [Redacted]	EPF CAT : 25D	COMIREX NO:	

USING ALL PERTINENT KEYHOLE PHOTOGRAPHY, THREE NEW TROPOSCATTER STATIONS WERE IDENTIFIED BETWEEN NORILSK AND DICKSON. THIS MEMO PROVIDES THE ANTENNA TYPES, ORIENTATIONS, AND THE CURRENT STATUS OF EACH OF THE STATIONS. IT ALSO INCLUDES THE CURRENT STATUS OF NORILSK RADCOM AND TROPOSCATTER STATION WEST. NO FACILITY WITH TWIN DISH ANTENNAS ORIENTED TOWARD KARAUL WAS IDENTIFIED WITHIN 10NM OF NORILSK.*

[Large Redacted Area]

25X1

1399
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

[Large Redacted Area]

25X1

DIA IIM 5B1-72432-79 30 MAY 79

[Redacted]

SEC CLASS: 14B

MSN:

[Redacted]

0009P

ACCN: S087300

25X1

1408
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

MUKACHEVO ARMY BARRACKS AL7

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35A

UR 481047N 0223047E
NPIC NO : -
COMIREX NO:

25X1

25X1

DIA IIM 561-72426-79 25 MAY 79 [] SEC CLASS: 14D MSN: [] 0001P ACCN: 50873025X1

CHOYBALSAN MILITARY STORAGE DPO DX1 ABANDONED

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

MG 480638N 1143411E
NPIC NO : - 51-A1
COMIREX NO:

25X1

DIA IIM 561-72425-79 25 MAY 79 [] SEC CLASS: 14R MSN: [] 0003P ACCN: 50873025X1

GLIWICE AMMUNITION STORAGE FACILITY 514

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

PL 501800N 0183757E
NPIC NO : - 42-A2
COMIREX NO:

25X1

DIA IIM 561-72396-79 24 MAY 79 [] SEC CLASS: 14 MSN: [] 0004P ACCN: 50873025X1

ULAANBATAR MOTOR PARK WEST

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

MG 475430N 1064630E
NPIC NO : - 1-D4
COMIREX NO:

25X1
25X1

DIA IIM 561-72413-79 24 MAY 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: 50873025X1

GRYFICE AMMUNITION STORAGE AREA

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

PL 535539N 0151054E
NPIC NO : -
COMIREX NO:

25X1

25X1

DIA IIM 561-72383-79 22 MAY 79 [] SEC CLASS: 14B MSN: [] 0002P ACCN: 50873025X1

STARYY KRYM ORDNANCE DEPOT D01 NAV STGE POSS

UR 450130N 0350820E

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-Q
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: []
 STARYY KRYM ORDNANCE DEPOT D01 NAV STGE POSS UR 450130N 0350820E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-Q
 IDHS CODE: [] EPF CAT : 75H COMIREX NO: []

25X1
25X1
25X1
25X1

DIA IIM 5B1-72352-79 22 MAY 79 [] SEC CLASS: 14B MSN: [] 0002P

ACCN: S087308

25X1

VESELOYE AMMUNITION DEPOT DA1 UR 453252N 0341640E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

AF PAR 527-79 03 APR 79 [] SEC CLASS: 13 MSN: 0009P

ACCN: S087309

25X1

DNEPROPETROVSK MISSILE DPC TEST STAND 5 UR 482601N 0345828E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-C
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1

PHOTO ANALYSIS OF TWO TEST BUILDINGS AT THE DNEPROPETROVSK MISSILE DEVELOPMENT AND PRODUCTION CENTER IS PROVIDED. INCLUDED IS A DESCRIPTION OF THE MODIFICATIONS TO TEST STAND 5 WHICH BEGAN IN SEPTEMBER 1974 AND A DESCRIPTION OF THE CONSTRUCTION OF THE NEW TEST BUILDING SOUTHWEST OF TEST STAND 5. REFERENCED ARE FTD REPORTS 687-69 AND 653-76, AND FTD DRAWINGS 69D6551 AND 79C4510.*

25X1

AF PAR 538-79 22 MAR 79 [] SEC CLASS: 13 MSN: 0004P

ACCN: S087311

25X1

CHANGCHIANG SSM/SPACE TRACKING FACILITY CH 192139N 1090822E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 68

25X1

1410
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

THIS REPORT SUPERSEDES PARAGRAPH 3B(1) OF PAR 74-523 AND PARAGRAPHS 2A(1) OF PAR 75-571, PAR 76-696, AND PAR 78-549. ANALYSIS OF NEW TRACKING DEVICES, CHANGES IN TRACKING DEVICES, AND CHANGES IN TYPES AND AZIMUTHS OF COMMUNICATIONS ANTENNAS AT CHANG-CHIANG SSM/SPACE TRACKING FACILITY ARE INCLUDED.*

AF PAR 540-79 29 MAR 79 [] SEC CLASS: 13 MSN: 0017P ACCN: 5087325X1

MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 58-N
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 58-N
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X1

25X1

25X1

25X1

A TABULATION SHOWING THE CHRONOLOGICAL DEVELOPMENT AND FUNCTIONAL ROLE OF MOSKVA GUIDED MISSILE AND SPACE RESEARCH CENTER REUTOV, ALONG WITH ANNOTATIONS FOR AN ASSOCIATED ISOMETRIC DRAWING OF THE PROPULSION TEST BUILDING ARE INCLUDED IN THIS REPORT. TEN YEARS OF IMAGERY WAS REVIEWED TO IDENTIFY ANY AEROSPACE ASSOCIATED HARDWARE AND SHIPPING CRATES/CANISTERS.

THIS REPORT SUPERSEDES PARAGRAPH 2D(4), PAR 77-567; PARAGRAPH 2D(4), PAR 77-733; PARAGRAPH 1B, PAR 78-709; PARAGRAPH 2D(5), PAR 79-518; AND PAR 77-574 IN ITS ENTIRETY. DRAWING 79C6517 SUPERCEDES 70C6569/2.*

25X1

1411
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 551-79 05 APR 79 SEC CLASS: 13 MSN: 0005P ACCN: S087317 25X1

MIASS MISSILE DEVELOPMENT + PROD FACIL PROB UR 550640N 0600820E
WAC NO : BE/OBJ NO: NPIC NO : - 70-A2
IUHS CODE: EPF CAT : 40E COMIREX NO:

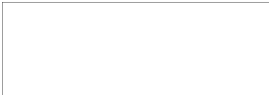
25X1
25X1

THIS REPORT GIVES A FUNCTIONAL DESCRIPTION OF THE BUILDING AND CHRONOLOGICAL GROWTH OF THE MIASS PROBABLE MISSILE DEVELOPMENT AND PRODUCTION FACILITY. ALL APPLICABLE KEYHOLE IMAGERY DATED FROM FEB 77-MAR 79 WAS USED FOR THIS REPORT.

THIS REPORT SUPPLEMENTS PAR 77-548 AND SUPERCEDES PARAGRAPH 2D (12), PAR 77-567; PARAGRAH 2D (12), PAR 77-733; AND PARAGRAPH 2D (13), PAR 79-518.*

1412
TOP SECRET CHESS RUFF

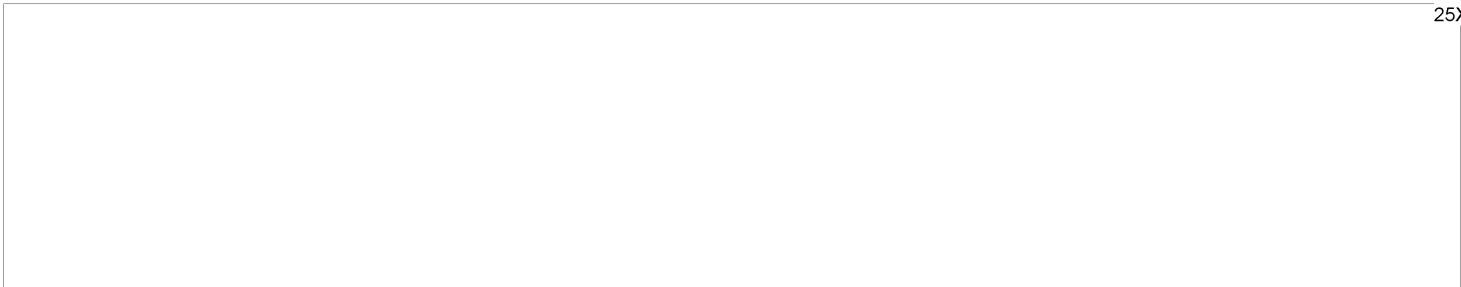
25X1
25X1





TOP SECRET CHESS RUFF





25X1
25X1



25X1

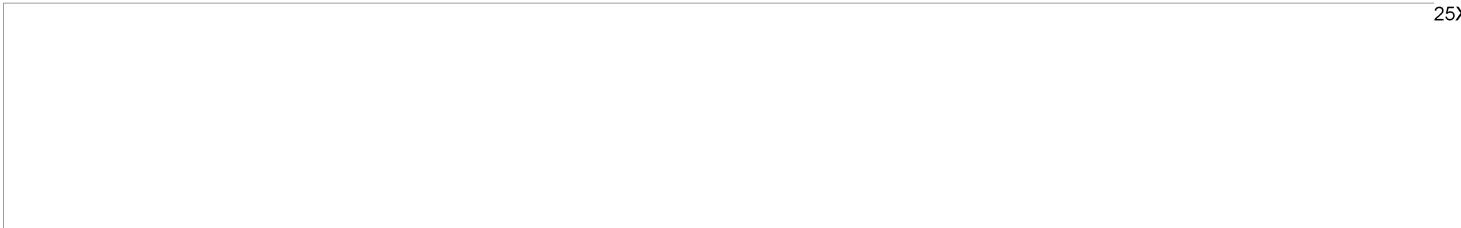
AF PAR 553-79 28 MAR 79  SEC CLASS: 13 MSN: 0010P ACCN: S08731 

KAMCHATKA MISSILE IMPACT AREAS CRATERS UR 5712 N 16133 E



WAC NO :  BE/OBJ NO : NPIC NO : -
IDHS CODE :  EPF CAT : 40 COMIKEX NO :

25X1



THIS REPORT PROVIDES A PHOTO ANALYSIS OF MISSILE IMPACT CRATERS ON THE KAMCHATKA PENINSULA. THE GEOGRAPHIC COORDINATES, CRATER VALIDITY, DIMENSIONS, DESCRIPTIVE CHARACTERISTICS, AND TIME OF OCCURRENCE AS ESTABLISHED BY AVAILABLE COVERAGE FOR EACH NEWLY OBSERVED CRATER ARE GIVEN IN TABULAR FORM. THE LOCATION OF TOWERS/MASTS AND BUILDINGS OBSERVED IN THE IMPACT AREAS IS ALSO PROVIDED.*



25X1

AF PAR 555-79 27 MAR 79  SEC CLASS: 13 MSN: 0002P ACCN: S08732 

TYUKATAM MTC RANGEHEAD TRACKING FAC BOW/ARROW UR 454230N 0632020E

WAC NO :  BE/OBJ NO :  NPIC NO : - 20-B1

25X1

1413
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
TYURATAM TRACKING FACILITY 5	BOW + ARROW	UR 515333N 0672113E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 18
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
VORKUTA ESV TRACKING FACILITY	BOW + ARROW	UR 673330N 0640941E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 4-K3
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

THIS REPORT GIVES THE LENGTHS AND AZIMUTHS OF THE EXTENDED BASELINES AT THE BOW AND ARROW OF VORKUTA
ESV TRACKING FACILITY, TYURATAM RANGEHEAD TRACKING FACILITY 5, AND TYURATAM TRACKING FACILITY 5. ALL
PERTINENT KEYHOLE IMAGERY WAS USED FOR THIS REPORT.*

25X1

1414
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF PAR 562-79 06 APR 79 [] SEC CLASS: 13 MSN: 0005P ACCN: S087326 25X1

AKHTUBINSK/VLADIMIROVKA AFLD A/C RADOME ANAL UR 481838N 0461424E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18-B1 25X1
IDHS CODE: [] EPF CAT : 25H COMIREX NO: [] 25X1

IMAGERY OF AKHTUBINSK/VLADIMIROVKA AIRFIELD WAS EXAMINED FOR LOOK-DOWN, SHOOT-DOWN MODIFICATIONS TO AIRCRAFT PRESENT DURING 1977 AND 1978.*

25X1

AF PAR 569-79 11 APR 79 [] SEC CLASS: 13 MSN: 0002P ACCN: S087328 25X1

CHIENSHUI SSM RIM FACILITY ANTENNAS CH 233950N 1025630E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 517-B 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1
CHIENSHUI SSM COMPLEX SITE 9 ANTENNA CH 235517N 1023458E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 432-F 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

1415
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

NEW ELECTRONICS FACILITIES WERE IDENTIFIED AT TWO SITES WITHIN CHIEN-SHUI SSM COMPLEX. PAR 78-719 IS REFERENCED.*

25X1

AF ENDR D6546-8-71 16 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087331

25X1

IVANKOVSKIY GUIDED MISSILE PLANT UR 564521N 0370700E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18-A
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

THIS DRAWING SUPERSEDES DRAWING 67C6552 AND SUPPLEMENTS PARS 77-510 AND 79-570.*

25X1

1416
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

AF ENDR C3501-7-70 04 APR 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S087325X1

MOSKVA GUIDED MISSILE R+D/PROD PLT TEST STAND UR 555444N 0372701E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 48-B1
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted]

25X1
25X1

THIS REPORT SUPPLEMENTS PARS 77-602, 78-640, AND 79-566 AND SUPERSEDES DRAWING 67B4503.*

AF ENDR C6583-4-70 27 APR 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S087325X1

MOSKVA MISSILE PROD PLT FILI 23 CHELOMEY OKB UR 554530N 0372928E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 46-I
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-572 AND 79-575.*

AF ENDR D4513-1-76 30 MAR 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S087325X1

SEMIPALATINSK NWPG PNUTS FACILITY COLUMNS UR 501101N 0782217E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 33-H
IDHS CODE: [Redacted] EPF CAT : 55A COMIREX NO: [Redacted]

25X1
25X1

1417
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

THIS DRAWING REFERENCES PARS 75-646 AND 79-559.*

25X1

AF ENDR C6515-1-77 20 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087341 25X1

DNEPROPETROVSK MISSILE DPC UTKIN DESIGN BUR UR 482601N 0345828E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-C
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1

THIS DRAWING REFERENCES PAR 79-573.*

25X1

AF ENDR C4510-79 22 FEB 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087345 25X1

1418
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

JNEPROPETROVSK MISSILE DPC TEST STAND 5 UR 482601N 0345828F
WAC NO : BE/OBJ NO: NPIC NO : - 7-C
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

THIS DRAWING REFERENCES PARS 79-527 AND 69-687.*

25X1

AF ENDR C1507-79 23 MAR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087325X1

MISSILES, CSS-1

CH
NPIC NO : -
COMIREX NO:

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40H

AF ENDR C6604-2-69 16 MAR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087325X1

MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88

UR 555517N 0374805E

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40E

NPIC NO : - 47
COMIREX NO:

25X1
25X1

MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88

UR 555517N 0374805E

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40H

NPIC NO : - 47
COMIREX NO:

25X1
25X1

THIS DRAWING SUPERSEDES A PORTION OF DRAWING C6524-65 AND PAR 79-537.*

AF ENDR E4517-79 05 APR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087325X1

KAPUSTIN YAR MTC SS-20 DEPLOYMENT PATTERNS

UR 484107N 0455853F

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40B

NPIC NO : - 1G
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-554 AND DRAWINGS 79E4515 AND 79E4516.*

25X1

1419
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: EPF CAT : 40B COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PAR 79-554 AND DRAWINGS 79E4516 AND 79E4517.*

25X1

AF ENDR C6517-79 09 MAR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087352

25X1

MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E

WAC NO : BE/OBJ NO: NPIC NO : - 58-N

25X1

IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E

WAC NO : BE/OBJ NO: NPIC NO : - 58-N

25X1

IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1

THIS DRAWING SUPERSEDES DRAWING 70C6569/2 AND SUPPLEMENTS PAR 79-540.*

AF ENDR C6538-1-78 30 MAR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087353

25X1

MOSKVA AIRCRAFT COMPONENTS PLANT 25 UR 554722N 0374250E

WAC NO : BE/OBJ NO: NPIC NO : -

25X1

IDHS CODE: EPF CAT : 05G COMIREX NO:

THIS DRAWING SUPPLEMENTS PARS 78-672 AND 79-561.*

AF ENDR D6507-1-77 23 MAR 79 SEC CLASS: 13 MSN: 0001P ACCN: S087354

25X1

MIASS MISSILE DEVELOPMENT + PROD FACIL PROB UR 550640N 0600820E

WAC NO : BE/OBJ NO: NPIC NO : - 70-A2

25X1

IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

THIS REPORT UPDATES PAR'S 77-548 AND 79-551. ALL PERTINENT IMAGERY DATED FROM APRIL 67 TO MARCH 79 WAS USED FOR THIS REPORT.*

25X1

1420 TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

AF ENDR C4519-2-69 18 APR 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S087325X1

TYURATAM MTC SPACE COMPLEX J SPACECRAFT UR 455751N 0631825E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 6-P
IDHS CODE: [Redacted] EPF CAT : 40H COMIREX NO: [Redacted]

25X1
25X1

THIS DRAWING GIVES AN ANALYSIS OF THE SPACECRAFT 8 PROPULSION STAGE, AT THE TYURATAM MTC SPACE COMPLEX
J. IMAGERY USED WAS FROM [Redacted]

25X1

AF ENDR B4533-1-72 18 APR 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S087325X1

SPACE, SL-X UPPER STAGE + PAYLOAD UR
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 40H COMIREX NO: [Redacted]

THIS DRAWING SUPPLEMENTS DRAWING 69C4519/2 AND PARS 70-524 AND 72-805.*

AF ENDR C6521-79 26 MAR 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S087325X1

HALAKASSUTE SSM/SPACE TRACKING FACILITY CH 404521N 0871327E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 37
IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-550.*

1421
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

NPIC SR SR029-79 MAY 79 [] SEC CLASS: 14G MSN: 0005P ACCN: S087361

25X1

SPRATLY ISLANDS MILITARY ACTIVITY

WAC NO : [] BE/OBJ NO: [] PG 083800N 1115430E
IUHS CODE: [] EPF CAT : 35 NPIC NO : - 2
COMIREX NO: []

25X1

25X1

BOTH VIETNAM AND THE PHILIPPINES CONTINUE TO ENHANCE THEIR POSITIONS IN THE POTENTIALLY OIL-RICH SPRATLY ISLAND GROUP IN THE SOUTH CHINA SEA. VIETNAM'S INTENTION TO EXPAND ITS INFLUENCE IN THE AREA IS EVIDENCED BY THE RECENT OCCUPATION OF AMBOYNA CAY. EMPHASIS ON THE EXPANSION AND DEVELOPMENT OF AIR FACILITIES BY BOTH COUNTRIES HAS RESULTED IN AN IMPROVED INTERISLAND TRANSPORTATION NETWORK. THESE DEVELOPMENTS WILL STRENGTHEN EACH COUNTRY'S ABILITY TO DEFEND AND SUPPORT ITS RESPECTIVE CLAIM IN THE SPRATLY ISLANDS.

CIA IAMR ISMR004J-79 MAY 79 [] SEC CLASS: 25 MSN: 0013P ACCN: S087362

25X1

MISSILES, SS-20 DEPLOYMENT RATE

WAC NO : [] BE/OBJ NO: [] UR
IUHS CODE: [] EPF CAT : 40B NPIC NO : -
COMIREX NO: []

MISSILES, SH-8

WAC NO : [] BE/OBJ NO: [] UR
IUHS CODE: [] EPF CAT : 40D NPIC NO : -
COMIREX NO: []

INDUSTRY, AMMONIA PLANTS IMPORTED PROD IMPACT

WAC NO : [] BE/OBJ NO: [] UR
IUHS CODE: [] EPF CAT : 30F NPIC NO : -
COMIREX NO: []

MILITARY, ARTILLERY WPN TOWED LRG-CALIBER DPL

WAC NO : [] BE/OBJ NO: [] UR
IUHS CODE: [] EPF CAT : 35D NPIC NO : -
COMIREX NO: []

ELECTRONICS, SYMPHONIE COMSAT GRND STA EXPMT

WAC NO : [] BE/OBJ NO: [] CH
IUHS CODE: [] EPF CAT : 25C NPIC NO : -
COMIREX NO: []

SUNGLIN MTC MISSILE SERVICE TOWER U/C

WAC NO : [] BE/OBJ NO: [] CH 281420N 1020149E
IUHS CODE: [] EPF CAT : 40E NPIC NO : - 87-C
COMIREX NO: []

25X1

25X1

25X1

25X1

1422
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Redacted]

25X1

NPIC SR SR031-79 MAY 79 [Redacted] SEC CLASS: 14B MSN: 0004P ACCN: 50873 25X1

KRASNAYA PAKHRA MESON FACILITY U/C UR 552751N 0371612E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 46-0 25X1
IUHS CODE: [Redacted] EPF CAT : 65A COMIREX NO: [Redacted] 25X1

THE FIRST GOOD, INTERPRETABLE IMAGERY OF THE SOVIET MESON FACILITY AT KRASNAYA PAKHRA RESEARCH COMPLEX (KPRC), USSR, WAS OBTAINED ON [Redacted] ON THAT DATE THE LINEAR ACCELERATOR (LINAC) TUNNEL WAS UNDER CONSTRUCTION, AND BUILDINGS AND SECTIONS OF THE FACILITY WERE IDENTIFIED BY FUNCTION WHEN COMPARED TO THE LOS ALAMOS MESON PHYSICS FACILITY (LAMPF), LOS ALAMOS SCIENTIFIC LABORATORY, NEW MEXICO. 25X1
ALTHOUGH NOT NEARLY AS LONG AS LAMPF, THE KPRC MESON FACILITY HAS SECTIONS CORRESPONDING TO THE US LAMPF INCLUDING THE INJECTOR BUILDING WHERE THE PARTICLES ARE GENERATED, THE PROBABLE DRIFT-TUBE SECTION WHERE THE PARTICLES ARE ACCELERATED BY ELECTRIC FIELDS WITHIN VACUUM TANKS, AND THE SIDE-COUPLED LINAC WHERE THE PARTICLES ARE ACCELERATED TO FINAL ENERGY LEVELS APPROACHING THE SPEED OF LIGHT. SWITCHYARDS WHERE THE PARTICLES ARE STEERED BY MAGNETS OR EXPERIMENTAL TEST AREAS CONTAINING THE TARGET CELLS HAVE NOT BEEN IDENTIFIED AS YET, BUT IT IS POSSIBLE THAT THEY WILL BE CONSTRUCTED ON A LANDFILL AREA NEAR THE NORTH END OF THE TUNNEL.

[Redacted]

25X1

NPIC IIR IIR020-79 17 MAY 79 [Redacted] SEC CLASS: 25B MSN: [Redacted] 0004P ACCN: 50873 25X1

ELECTRONICS, RAMONA M MBL ELINT SYS FLD TEST CZ

1423
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1

WAC NO :	BE/OBJ NO:	NPIC NO :	-
IUHS CODE:	EPF CAT : 25A	COMIREX NO:	
DYLEN TILLENBERG SIGINT FACILITY RAMONA M		CZ	495812N 0123019E
WAC NO :	BE/OBJ NO:	NPIC NO :	- 172-B
IUHS CODE:	EPF CAT : 25	COMIREX NO:	

25X1
25X1

ON [REDACTED] A CZECHOSLOVAKIAN MOBILE RAMONA-M ELINT COLLECTION AND TARGET-LOCATING SYSTEM WAS OBSERVED UNDERGOING PROBABLE FIELD TESTING AT DYLEN TILLENBERG SIGINT COLLECTION FACILITY, CZECHOSLOVAKIA.

25X1



25X1

1424
TOP SECRET CHESS RUFF



25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC BIIR RCA09-0013-79 MAY 79 [Redacted] SEC CLASS: 25 X MSN: 0007P ACCN: S08725X1

DMITROV MISSILE PROPULSION R+D FACILITY UR 562539N 0372846E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 98-N1
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted]

25X1
25X1

THIS REPORT DESCRIBES DEVELOPMENTS OBSERVED AT DMITROV MISSILE PROPULSION RESEARCH AND DEVELOPMENT FACILITY, USSR, FROM [Redacted] THE INFORMATION CUTOFF DATE. SIGNIFICANT EXPANSION OF THE FACILITY INDICATES THAT MISSILE PROPULSION SYSTEM DESIGN, DEVELOPMENT, AND TESTING IS NOT ONLY CONTINUING BUT THAT ADDITIONAL WORK ON NEW OR MODIFIED MISSILE SYSTEMS/SUBSYSTEMS IS PLANNED. THE IDENTIFICATION OF SA-5 MISSILE CANISTERS, MISSILE SUPPORT EQUIPMENT, AND ASSOCIATED ELECTRONICS VANS AT

25X1

1425

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE FACILITY DURING THIS REPORTING PERIOD INDICATES THAT THE DMITROV FACILITY IS INVOLVED IN MAKING IMPROVEMENTS TO SURFACE-TO-AIR MISSILE SYSTEMS. THIS REPORT UPDATES NPIC REPORT [REDACTED] INCLUDED IN THIS REPORT ARE A LOCATION MAP, THREE ANNOTATED PHOTOGRAPHS, AND THREE TABLES OF MENSURAL AND CHRONOLOGICAL DATA.

25X1

DIA IIM 561-72685-79 26 JUL 79 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 0003P ACCN: S087372 25X1

BOGOSLAVETS BOMBING RANGE/SIMULATED AFLD SRCH UR 454840N 1343910E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 76
IDHS CODE: [REDACTED] EPF CAT : 05 COMIREX NO:

NPIC MEMO [REDACTED] 29 MAY 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: S087373 25X1

KLINTSY TV RELAY STATION UR 524435N 0321435E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 117-A3
IDHS CODE: [REDACTED] EPF CAT : 25B COMIREX NO:

GOMEL TV CENTER UR 522602N 0310043E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 16-I2
IDHS CODE: [REDACTED] EPF CAT : 25B COMIREX NO:

ZHITKOVICHI RADIO RELAY STATION PROB UR 521315N 0275052E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 156-I
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

SINKEVICHI RADIO RELAY STATION UR 521305N 0271518E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 245
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

PAROKHONSK RADIO RELAY STATION UR 521330N 0262755E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 244
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

PINSK RADIO RELAY STATION UR 521045N 0260330E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 54-E6
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO: [REDACTED] 25X1

IVANOVO RADIO RELAY STATION UR 520730N 0253338E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 54-D3
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

ANTOPOL RADIO RELAY STATION UR 521235N 0244610E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 6-H2
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

KOBRIN RADIO RELAY STATION UR 521705N 0242900E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 34-A3
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

BREST RADIO RELAY/TV/FM BUCSTG CTR ROKINITSA UR 520812N 0235857E 25X1
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 14-L
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO:

1426
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

KOVEL RADIO RELAY + TV RELAY STATION UR 511200N 0244010E
WAC NO : BE/OBJ NO: NPIC NO : - 75-H4
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

THIS MEMO PROVIDES THE TYPE, NUMBER AND ORIENTATION OF ANTENNAS AT EXISTING STATIONS IN THE BRYANSK-GOMEL-BREST RADIO-RELAY LINE. WAS USED FOR THE REVIEW. A SEARCH FOR NEW RADIO RELAY STATIONS BETWEEN KLINTSY AND GOMEL AND BETWEEN KOVEL AND BREST WAS DONE AND NO NEW RADIO RELAY STATIONS WERE IDENTIFIED.*

25X1

25X1

NPIC MEMO 30 MAY 79 SEC CLASS: 14B MSN: 0003P ACCN: 5087

BELOOMUT SPACE TRKG FACIL A/C TEST LANE ASSOC UR 545700N 0392110E
WAC NO : BE/OBJ NO: NPIC NO : - 153
IDHS CODE: EPF CAT : 25C COMIREX NO:
RADOVITSY OPTICAL TRACKING FAC A/C TEST ASSOC UR 550530N 0393130E
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:
RADOVITSY OPTICAL TRACKING FAC A/C TEST ASSOC UR 550530N 0393130E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25H COMIREX NO:
ELECTRONICS FACILITIES A/C TEST LANE ASSOC UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25H COMIREX NO:

25X1

25X1

25X1

THIS MEMO REVIEWS TO IDENTIFY GROUND-BASED INSTRUMENTATION FACILITIES ASSOCIATED WITH AN AIRCRAFT TEST LANE SOUTHEAST OF MOSCOW, USSR. TWO GROUND-BASED FACILITIES WERE IDENTIFIED THAT ARE PROBABLY ASSOCIATED WITH THE TEST LANE. FIVE ADDITIONAL INSTALLATIONS WERE IDENTIFIED THAT COULD BE ASSOCIATED WITH THE LANE. LIMITED INTERPRETABILITY OF PHOTOGRAPHY COVERING THE EASTERN 50 KILOMETERS OF THE TEST LANE PRECLUDED IDENTIFICATION OF OTHER INSTALLATIONS/FACILITIES THAT MAY EXIST IN THAT AREA.*

25X1

25X1

1427
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

25X1

ARMY PIM PIM057-78 02 MAR 79 [] SEC CLASS: 14E MSN: [] 0004P ACCN: S087378 25X1

NANCHING RADIO RELAY STATION BUNKERED CH 315212N 1184630E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 32-B 25X1
IUHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF SHANG-CHI-CHIEH RADREL STA/BNK, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AND SUPPORT AREAS TO INCLUDE THE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, SIZE OF THE DISH ANTENNAS, ELEVATION OF THE FACILITY, AND THE GEOGRAPHIC LOCATION. THIS FACILITY IS ALSO KNOWN AS THE NAN-CHING RADIO RELAY STATION BUNKERED.*

ARMY PIM PIM056-78 26 JAN 79 [] SEC CLASS: 14E MSN: [] 0004P ACCN: S087379 25X1

SHIH-TSUN RADIO RELAY STATION NORTH BUNKERED CH 352317N 1101013E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 186 25X1
IUHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A PHYSICAL DESCRIPTION AND ANNOTATED PHOTOGRAPH OF SHIH-TSUN RADREL STA N/BNK, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS, ELEVATION OF THE FACILITY, AND THE GEOGRAPHIC LOCATION.

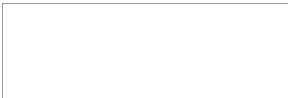
25X1


1428
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF 



25X1



25X1

ARMY PIM PIM014-79 16 APR 79  SEC CLASS: 14B MSN: 0005P ACCN: S08725X1

MILITARY, SELF-PROPELLED GUN WHEELED NEW CZ
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35E COMIREX NO:

THIS PHOTO INTERPRETATION MEMORANDUM (PIM) CONTAINS INFORMATION ON THE NEW CZECHOSLOVAKIAN WHEELED SP GUN. INCLUDED IN THIS REPORT IS A BASIC DESCRIPTION, AN ANNOTATED PHOTOGRAPH AND CONCEPTUAL DRAWING WITH MENSURATION. THIS INFORMATION IS CURRENT AS OF 28 MARCH 1979.

ARMY DSIIR RAC24-8001-79 DEC 78 SEC CLASS: 08B MSN: 0013P ACCN: S087393

1431
TOP SECRET CHESS RUFF 



25X1
25X1

TOP SECRET CHESS RUFF

25X1

MILITARY, M-1977 140MM MULTIPLE ROCKET LCHR CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35E COMIREX NO:

THE PURPOSE OF THIS DIRECT SUPPORT IMAGERY INTERPRETATION REPORT IS TO PROVIDE CURRENT INFORMATION ON THE 140MM MULTIPLE ROCKET LAUNCHER (MRL) M-1977 PRODUCED BY THE PEOPLE'S REPUBLIC OF CHINA (PRC). THE REPORT CONTAINS A BASIC DESCRIPTION AND THE IDENTIFICATION FEATURES OF THE PRC MRL M-1977 AND A BASIC DESCRIPTION OF THE PRC PRODUCED NJ-130 AND NJ-230 TRUCKS KNOWN TO MOUNT THE MRL. ALSO INCLUDED IS A COMPARISON OF THE PRC MRL M-1977 WITH THE SOVIET BM-14/17. THE INFORMATION IS CURRENT AS OF MAY 1978.

25X1

DIA IIM 5B1-72465-79 04 JUN 79 SEC CLASS: 14B MSN: 0003P ACCN: S087398

25X1

SARANTSI AMMUNITION DEPOT ENE 503 BU 424434N 0234823E
WAC NO : BE/OBJ NO: NPIC NO : - 177
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1

25X1

1432
TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC MEMO

[Redacted]

08 JUN 79

[Redacted]

SEC CLASS: 14B MSN:

0001P

ACCN: 5087420

25X1

KARSHI AIRFIELD SOUTH TWIN EAR ANTENNA SEARCH
WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IHHS CODE: [Redacted] EPF CAT : 25H
KARSHI ORDNANCE DEPOT D01 TWIN EAR ANT SEARCH

UR 384822N 0654615E
NPIC NO : - 3-A
COMIREX NO: [Redacted]
UR 384927N 0654545E

25X1

25X1

1437

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO :	BE/OBJ NO :	NPIC NO :	- 3-A1
IUHS CODE :	EPF CAT :	COMIREX NO :	
KARSHI ORDNANCE DEPOT D01 TWIN EAR ANT SEARCH	UR	384927N	0654545E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 3-A1
IUHS CODE :	EPF CAT :	COMIREX NO :	

25X1
25X1
25X1
25X1

THIS MEMO REVIEWS ALL PERTINENT KEYHOLE IMAGERY OF KARSHI AIRFIELD SOUTH, KARSHI ORDNANCE DEPOT D01 AND THE SURROUNDING AREA TO IDENTIFY TWIN EAR TROPOSCATTER ANTENNAS. NO TWIN EAR TROPOSCATTER ANTENNAS WERE IDENTIFIED IN THE KARSHI AREA.*

CIA INFR IS10064J-79 24 APR 79 SEC CLASS: 24 MSN: 0013P ACCN: 5087421

25X1

SHUANGCHENGZU MTC TEST SITE B1/2 RAILCARS	CH	411828N	1001854E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 1-N
IUHS CODE :	EPF CAT :	COMIREX NO :	
SHUANGCHENGZU MTC TEST SITE B1/2 RAILCARS	CH	411828N	1001854E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 1-N
IUHS CODE :	EPF CAT :	COMIREX NO :	
SHUANGCHENGZU MTC SSM/SAM ASBLY/CHECKOUT FAC	CH	410613N	1001647E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 1-0
IUHS CODE :	EPF CAT :	COMIREX NO :	
MISSILES, CSS-X-4/CSL-2 LAUNCH INDICATORS	CH		
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IUHS CODE :	EPF CAT :	COMIREX NO :	
MISSILES, CSS-X-4/CSL-2 LAUNCH INDICATORS	CH		
WAC NO :	BE/OBJ NO :	NPIC NO :	-
IUHS CODE :	EPF CAT :	COMIREX NO :	

25X1
25X1
25X1
25X1
25X1

OIA HAS STUDIED THE MISSILE-RELATED RAILCARS THAT HAVE BEEN PRESENT AT SHUANGCHENGZI (SHUANG-CHENG-TZU) MISSILE TEST CENTER SINCE 1970 TO DETERMINE IF THEIR PRESENCE IS AN INDICATION OF AN IMPENDING MISSILE LAUNCH. ALTHOUGH THEY HAVE BEEN SEEN AT FOUR FACILITIES WITHIN THE COMPLEX, ONLY THOSE OBSERVED AT THE SSM ASSEMBLY AND CHECKOUT FACILITY AND AT LAUNCH COMPLEX B CORRELATE WITH LAUNCH ACTIVITY.

THE APPEARANCE OF MISSILE RAILCARS AT THE SSM ASSEMBLY AND CHECKOUT FACILITY IS THE INITIAL INDICATOR OF IMPENDING LAUNCH ACTIVITY AT SHUANGCHENGZI. RAILCARS ASSOCIATED WITH THE CSS-1 MEDIUM RANGE BALLISTIC MISSILE (MRBM) APPEARS TWO TO THREE WEEKS BEFORE THE LAUNCH OCCURS. RAILCARS ASSOCIATED WITH THE CSS-X-4 INTERCONTINENTAL BALLISTIC MISSILE (ICBM) AND WITH THE SATELLITE LAUNCH VARIANT OF THE CSS-X-4 APPEARS SIX TO EIGHT WEEKS AND FIVE TO SIX WEEKS RESPECTIVELY PRIOR TO LAUNCH.

INITIALLY, PASSENGER RAILCARS APPEARED AT LAUNCH COMPLEX B PRIOR TO THE LAUNCH OF EITHER THE CSS-X-4 OR CSL-2. CURRENTLY HOWEVER, IT APPEARS THAT THESE CARS ARE SENT TO COMPLEX B ONLY FOR CSL-2 LAUNCHES AND ARRIVE ABOUT A WEEK TO TEN DAYS BEFORE THE LAUNCH.

CIA INFR IS10071J-79 19 APR 79 SEC CLASS: 24 MSN: 0016P ACCN: 5087422

25X1

1438
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1

MILITARY, GROUND FORCES ACTIVITY LANCHOU MR CH
WAC NO : BE/OBJ NO : NPIC NO : -
IDHS CODE : EPF CAT : 35 COMIREX NO :

THIS PAPER DISCUSSES THE IMPROVEMENTS TO THE GROUND FORCES IN THE LANCHOU MILITARY REGION FROM EARLY 1973 TO JANUARY 1979. EACH OF THE MAJOR GROUND FORCE UNITS WAS EXAMINED ON SATELLITE IMAGERY ACQUIRED SINCE THE EARLY 1970'S TO DETERMINE THE EXTENT OF THE IMPROVEMENTS. INCLUDED IS A DISCUSSION OF THE ORGANIZATION AND LOCATION OF UNITS FOR EACH ARMY AND INDEPENDENT DIVISION OR REGIMENT. IMPROVEMENTS ARE DISCUSSED BY TYPE OF UNIT--ARMOR, INFANTRY, FIELD ARTILLERY, AAA, AND RIVER CROSSING. A SEPARATE SECTION DESCRIBES THE IMPROVEMENTS TO THE GARRISON DIVISION AT SHUANGCHENGZI (SHUANG-CHENG-TZU).

THE TABLE AT THE END OF THIS REPORT LISTS THE NUMBER OF THE MAJOR PIECES OF GROUND FORCE EQUIPMENT ASSIGNED TO EACH OF THE MAIN-FORCE AND MAJOR LOCAL-FORCE UNITS IN THE REGION. IT ALSO SHOWS THE STANDARD TABLE OF ORGANIZATION AND EQUIPMENT (TO+E) FOR EACH TYPE OF UNIT, THE EQUIPMENT HOLDINGS THAT OIA ASSESSED FOR EACH UNIT, AND THE HIGH COUNT OF EQUIPMENT ACTUALLY OBSERVED AT EACH UNIT. THE HIGH COUNTS REPRESENT ABOUT 90 PERCENT OF THE ASSESSED STRENGTH OF THE GROUND FORCE UNITS, AND IN MOST CASES WERE EQUAL TO THE UNIT'S TO+E. WHEN LESS THAN TWO-THIRDS OF A UNIT'S STANDARD COMPLEMENT OF EQUIPMENT WAS SEEN, THE PRESENCE OF COVERED VEHICLE/EQUIPMENT STORAGE WAS CONSIDERED IN ESTIMATING THE ASSESSED STRENGTH OF THE UNIT. FOR EXAMPLE, IF THE UNIT HAD COVERED VEHICLE STORAGE FOR A FULL STRENGTH COMPLEMENT OF 18 PIECES OF EQUIPMENT, AND 11 WERE OBSERVED PARKED IN THE OPEN, THE UNIT WAS ASSESSED AT FULL STRENGTH. SIGNIFICANTLY OVERSTRENGTH UNITS ARE DISCUSSED IN THE BODY OF THIS PAPER. IF NO EQUIPMENT WAS SEEN AT A CHINESE GROUND FORCE FACILITY, NONE WAS ASSESSED, REGARDLESS OF THE PRESENCE OF COVERED STORAGE.

CIA INFR IS10079K-79 09 MAY 79 [REDACTED] SEC CLASS: 13 MSN: 0008P ACCN: S087425X1

CHANDIGARH ORDNANCE RSCH LAB TEST/CONST ACT IN 303830N 0765400E
WAC NO : BE/OBJ NO : NPIC NO : - 6-A
IDHS CODE : EPF CAT : 35G COMIREX NO :

25X1
25X1

THIS MEMORANDUM UPDATES A 1975 OIA STUDY ON THE SOUTHEAST TEST SITE AT THE TERMINAL BALLISTICS RESEARCH LABORATORY (TBRL) HIGH EXPLOSIVES (HE) TEST RANGE, 15 KILOMETERS SOUTHEAST OF CHANDIGARH, INDIA. THE TBRL IS THE ONLY KNOWN HE RESEARCH FACILITY IN INDIA CAPABLE OF PERFORMING THE KINDS OF HE EXPERIMENTS NECESSARY TO DEVELOP EFFICIENT NUCLEAR WEAPONS, AND IS PROBABLY THE LOCATION OF HE EXPERIMENTS LEADING UP TO THE 1974 INDIAN NUCLEAR TEST. THE TEST ACTIVITIES OBSERVED AT THE SOUTHEAST TEST SITE HAVE LEAD OIA TO THE CONCLUSION THAT ALTHOUGH SOPHISTICATED HE TESTS ARE BEING CONDUCTED HERE THAT COULD BE NUCLEAR-WEAPONS RELATED, THE SETUPS ARE ALSO CONSISTENT WITH COVENTIONAL WEAPONS TESTING AND THEREFORE CANNOT BE EXCLUSIVELY ATTRIBUTED TO EITHER TYPES OF RESEARCH. INFORMATION IN THIS REPORT WAS DERIVED FROM IMAGERY ACQUIRED FROM MAY 1979 THROUGH SEPTEMBER 1978.

CIA INFR IS10083K-79 10 MAY 79 [REDACTED] SEC CLASS: 13 MSN: 0007P ACCN: S087425X1

KAZAN AIRFRAME PLANT GORBUNOV BACKFIRE MODIF UR 555140N 0490700E
WAC NO : BE/OBJ NO : NPIC NO : - 14-6
IDHS CODE : EPF CAT : 05G COMIREX NO :

25X1

25X1

1439

TOP SECRET CHESS RUFF



25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KAMENSKOYE FLIGHT TEST CENTER BACKFIRE MODIF UR 553418N 0380923E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 50
 IUHS CODE: [] EPF CAT : 056 COMIREX NO: []
 AIRCRAFT, BACKFIRE ENGINE INLETS MODIFIED UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IUHS CODE: [] EPF CAT : 05D COMIREX NO:

25X1
25X1

THIS REPORT GIVES A HISTORY OF THE BACKFIRE BOMBER WITH MODIFIED ENGINE INLETS. FOUR BACKFIRE BOMBERS WITH ENGINE INLETS HAVE BEEN PRODUCED AT KAZAN AIRFRAME PLANT 22 SINCE FALL OF 1978 INDICATING THAT A SIZABLE TEST PROGRAM IS UNDERWAY. ONE OTHER BACKFIRE WITH THE MODIFIED INLETS WAS PROBABLY MODIFIED AT RAMENSKOYE FLIGHT TEST CENTER. THE INITIAL PHOTOGRAPHIC EVIDENCE OF THIS INLET MODIFICATION PROGRAM CAN BE TRACED BACK TO [] WHEN THE MODIFIED BACKFIRE WAS OBSERVED AT RAMENSKOYE. THERE IS ALSO MORE RECENT PHOTOGRAPHIC EVIDENCE THAT THE SOVIETS ARE EXPERIENCING DIFFICULTIES WITH THESE MODIFIED AIRCRAFT.

25X1

CIA INFR IS10086K-79 24 MAY 79 [] SEC CLASS: 13 MSN: 0009P

ACCN: S087425

25X1

SEMIPALATINSK GRAIN PROCESSING YARD ABANDONED UR 503735N 0775104E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 33-S
 IUHS CODE: [] EPF CAT : 10D COMIREX NO: []

25X1
25X1

A NOW ABANDONED GRAIN PROCESSING YARD IN THE SEMIPALATINSK NUCLEAR WEAPONS PROVING GROUND (NPWG) WAS RECENTLY REPORTED TO HAVE BEEN A TEST LOCATION FOR EXPERIMENTAL STUDIES INVOLVING UNDERWATER EXPLOSIONS. EARLIER, THE SAME FACILITY HAD BEEN TENTATIVELY IDENTIFIED AS A SUSPECT ELECTROMAGNETIC PULSE (EMP) SIMULATION FACILITY.

AFTER A THOROUGH REVIEW OF THE IMAGERY OF THIS INSTALLATION, OIA HAS CONCLUDED THAT ITS SOLE FUNCTION SINCE ITS CONSTRUCTION HAS BEEN RELATED TO AGRICULTURE. UNTIL 1971 THE INSTALLATION SERVED AS A GRAIN PROCESSING YARD WHERE GRAIN WAS TEMPORARILY STORED, DRIED, CLEANED AND LOADED ONTO TRUCKS FOR TRANSPORT. SINCE THEN, IT HAS PERIODICALLY SERVED AS A STAGING POINT FOR AGRICULTURAL MACHINERY USED AT PLANTING AND HARVEST TIME IN THE ADJACENT CULTIVATED FIELDS.

CIA INFR IS10081K-79 11 MAY 79 [] SEC CLASS: 13 MSN: 0005P

ACCN: S087426

25X1

TINDOUF MILITARY ACTIVITY AG 2742 N 00808 W
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 1-B
 IUHS CODE: [] EPF CAT : 35 COMIREX NO: []
 TINDOUF SPANISH SAHARAN REFUGEE CAMPS AG 2742 N 00808 W
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IUHS CODE: [] EPF CAT : 10A COMIREX NO: []
 AQUINET BEL EGRA SAHARAN REFUGEE CAMPS AG 2650 N 00651 W
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IUHS CODE: [] EPF CAT : 10A COMIREX NO: []

25X1
25X1
25X1
25X1

IN EARLY 1979 ALGERIAN GROUND FORCE UNITS IN THE TINDOUF AREA OF WESTERN ALGERIA CONSISTED OF TWO

1440
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

MOTORIZED INFANTRY BRIGADES, AN ARMORED BRIGADE, AND ONE POSSIBLE INDEPENDENT INFANTRY BATTALION. THERE HAS BEEN NO CHANGE IN THIS STRUCTURE SINCE LATE 1977. TWELVE MIG-21S AND TWO MI-8 HELICOPTERS WERE AT TINDOUF AIRFIELD. THIS COUNT HAS REMAINED UNCHANGED FOR THE PAST NINE MONTHS. HOWEVER, THE REFUGEE CAMPS HAVE UNDERGONE CONSIDERABLE REORGANIZATION AND HAVE INCREASED IN SIZE BY APPROXIMATELY 1,800 TENTS SINCE JUNE 1978.

CIA INFR IS10078K-79 08 MAY 79 [Redacted] SEC CLASS: 13 MSN: 0005P ACCN: S08725X1

MILITARY, INFANTRY BRIGADES DEPLOYED IDENT	YS	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35	COMIREX NO:
THUF INFANTRY BRIGADE HEADQUARTERS	YS 172500N 0510500E	
WAC NO :	BE/OBJ NO: [Redacted]	NPIC NO : - 14
IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]
THAMUD MECHANIZED INFANTRY BATTALION	YS 1712 N 04959 E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 35	COMIREX NO:
JABAL SHABUT MECHANIZED INFANTRY BATTALION	YS 1700 N 05150 E	
WAC NO :	BE/OBJ NO: [Redacted]	NPIC NO : - 7
IDHS CODE: [Redacted]	EPF CAT : 35	COMIREX NO:
AL GHAYDAH MILITARY CAMP INFANTRY BN HQ	YS 161150N 0521120E	
WAC NO :	BE/OBJ NO: [Redacted]	NPIC NO : - 4-A
IDHS CODE:	EPF CAT : 35A	COMIREX NO:
HAWF ARTILLERY BATTERIES	YS 1638 N 05301 E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE: [Redacted]	EPF CAT : 35D	COMIREX NO:

CIA HAS IDENTIFIED THE HEADQUARTERS AND MAJOR ELEMENTS OF TWO SOUTH YEMENI INFANTRY BRIGADES IN THE EASTERN REGION (SIXTH GOVERNORATE) OF THE PEOPLE'S DEMOCRATIC REPUBLIC OF YEMEN (PDRY). ONE INFANTRY BRIGADE HEADQUARTERS AND A SUBORDINATE MECHANIZED INFANTRY BATTALION WERE IDENTIFIED IN THE AREA SOUTH OF THUF (17-25N 51-05E). A MECHANIZED INFANTRY BATTALION SUBORDINATE TO THIS BRIGADE HEADQUARTERS IS AT THAMUD (17-12N 49-59E) AND ANOTHER IS AT JABAL SHABUT (17-00N 51-50E). A SECOND INFANTRY BRIGADE HEADQUARTERS AND THREE SUBORDINATE INFANTRY BATTALIONS WERE IDENTIFIED AT AL GHAYDAH (16-12N 52-11E). IN ADDITION, TWO SOUTH YEMENI ARTILLERY BATTERIES, PROBABLY SUBORDINATE TO THE AL GHAYDAH BRIGADE ARE AT HAWF (16-38N 53-01E) NEAR THE PDRY/OMANI BORDER.

CIA INFR IS10074K-79 25 APR 79 [Redacted] SEC CLASS: 13 MSN: 0035P ACCN: S08725X1

MISSILES, ACTIVITY SUMMARY SAL RELATED	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 40
	NPIC NO :
	COMIREX NO:

THIS MEMORANDUM REPORTS STRATEGIC MISSILE ACTIVITY OBSERVED IN THE USSR DURING THE PERIOD 10 SEPTEMBER

1441
TOP SECRET CHESS RUFF [Redacted]

[Redacted] 25X1
[Redacted] 25X1

TOP SECRET CHESS RUFF

25X1

- 15 MARCH 1979. THE INFORMATION WAS OBTAINED FROM ANALYSIS OF [REDACTED] THE CUTOFF DATE OF INFORMATION IN SELECTED PORTIONS OF THIS MEMORANDUM EXTENDS BEYOND 15 MARCH IN ORDER TO INCLUDE INFORMATION THAT DIRECTLY AFFECTS THE ANALYSIS OF THE [REDACTED] IN THESE INSTANCES, THE DATES ARE INDICATED IN THE APPROPRIATE SECTIONS.

25X1

25X1

CIA INFR 1S10072K-79 02 MAY 79 [REDACTED] SEC CLASS: 13 MSN: 0005P ACCN: S087429 25X1

MISSILES, SS-20 HIGH-BAY DRIVE-THROUGH BLDG UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, SS-20 TECHNICAL SUPPORT BUILDING UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40B COMIREX NO:

THE SOVIETS ARE CONSTRUCTING A SINGLE-BAY, HIGH-BAY VEHICLE MAINTENANCE GARAGE AND AN ASSOCIATED PROBABLE VEHICLE SUPPLY/ADMINISTRATION BUILDING AT FIVE OF THE SIX KNOWN SS-20 MISSILE REGIMENTAL BASES IN THE WESTERN USSR. THE GARAGES APPEAR SPECIFICALLY DESIGNED FOR MAINTENANCE OF THE ABOUT 70 LARGE LAUNCH RELATED VEHICLES IN EACH SS-20 REGIMENT. OIA BELIEVES THAT THE CONSTRUCTION OF THE GARAGES AND SUPPLY/ADMINISTRATION BUILDINGS WILL BE EXTENDED TO THE SIXTH SS-20 MISSILE REGIMENTAL BASE IN THE WESTERN USSR AND PROBABLY TO THE FOUR SS-20 MISSILE DIVISIONAL SUPPORT COMPLEXES IN THE URALS AND EASTERN USSR.

CIA INFR 1S10080K-79 14 MAY 79 [REDACTED] SEC CLASS: 13 MSN: 0004P ACCN: S087430 25X1

PETROVKA NAVAL BASE + SHPYD E-2 SSGN OVERHAUL UR 430703N 1322017E
WAC NO : BE/OBJ NO: NPIC NO : - 67
IDHS CODE: EPF CAT : 75B COMIREX NO:
PETROVKA NAVAL BASE + SHPYD E-2 SSGN OVERHAUL UR 430703N 1322017E
WAC NO : BE/OBJ NO: NPIC NO : - 67
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1

25X1

25X1

25X1

AN E-II-CLASS NUCLEAR-POWERED CRUISE MISSILE SUBMARINE IS PROBABLY BEING OVERHAULED AND REFUELED INSIDE THE REPAIR HALL AT PETROVKA SHIP REPAIR YARD. THE E-II APPARENTLY ENTERED THE HALL BETWEEN OCTOBER 1976 AND MID-1977. EVIDENCE OF THIS REPAIR WORK INCLUDES THE APPEARANCE AT THE REPAIR YARD OF AN EXTRA E-II REACTOR ACCESS PLATE IN 1977 AND AN EXTRA SET OF E-II LAUNCH TUBES IN 1978. OF SIGNIFICANCE IS THE FACT THAT THE E-II ENTERED THE HALL UNDETECTED AND THAT IT APPARENTLY ENTERED WITH ITS REACTOR INTACT, I.E., NOT DEFUELED.

DIA IIM 5b1-7286b-79 24 AUG 79 [REDACTED] SEC CLASS: 13 MSN: 0001P ACCN: S087431 25X1

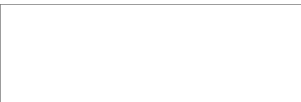
NATALL BOMBING RANGE/SIMULATED AIRFIELD SRCH UR 7643 N 06855 E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

1442
TOP SECRET CHESS RUFF

25X1

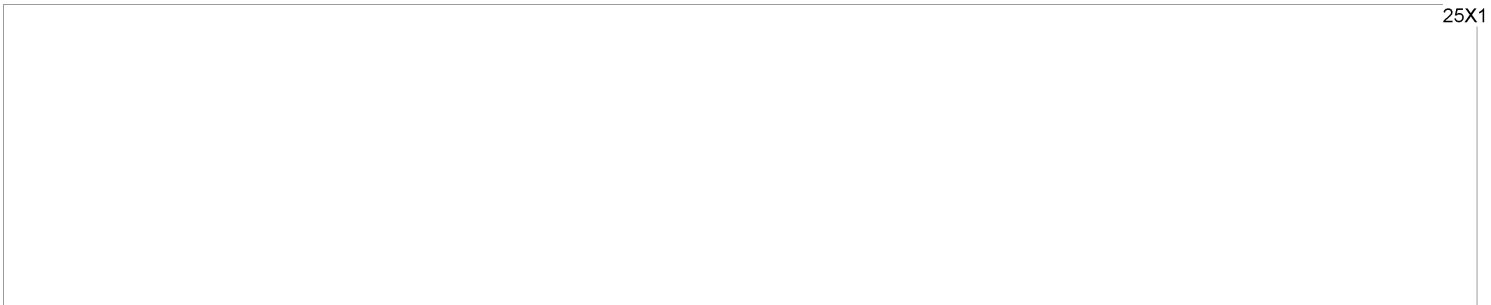
25X1



TOP SECRET CHESS RUFF



25X1
25X1



25X1

DIA IIR SB1-72486-79 08 JUN 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: 50874325X1

ULSHANITSA ORDNANCE DEPOT D01

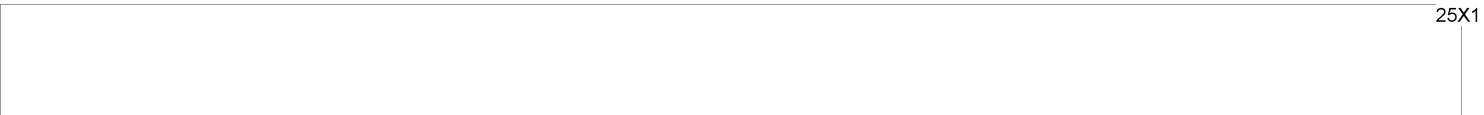
UR 493730N 0304000F

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 35F

NPIC NO : - R=F
COMIREX NO: [REDACTED]

25X1
25X1



25X1

DIA IIR SB1-72503-79 11 JUN 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P ACCN: 50874325X1

KRYSTROWICE AMMUNITION DEPOT NW

PL 514843N 0151140E

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 35F

NPIC NO : - 305
COMIREX NO:

25X1

DIA IIR SB1-72470-79 11 JUN 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0005P ACCN: 50874325X1

SHYADOVO AMMUNITION DEPOT SOUTH 501

BU 430306N 0270112E

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 35F

NPIC NO : - 11
COMIREX NO: [REDACTED]

25X1
25X1

DIA IIR SB1-72485-79 11 JUN 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: 50874325X1

SLIVEN AMMUNITION DEPOT 515

BU 423931N 0261812E

WAC NO : [REDACTED]

BE/OBJ NO: [REDACTED]

NPIC NO : - R2-B

25X1

TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

DIA IIM 5b1-72440-79 11 JUN 79 [] SEC CLASS: 14B MSN: [] 0003P

ACCN: S087439

25X1

SLIVNITSA AMMUNITION DUMP ALDOMIROVTSI NE BU 425200N 0230020E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 178-A3
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X25X1

CIA IRP IS10073K-79 MAY 79 [] SEC CLASS: 14E MSN: 0023P

ACCN: S087440

25X1

SHIPS, OPERATIONAL UNAVAILABILITY 1977-78 UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 75D COMIREX NO:

THIS REPORT PRESENTS THE RESULTS OF A PHOTOGRAPHIC STUDY UNDERTAKEN TO DETERMINE THE NUMBER OF NUCLEAR-POWERED SUBMARINES AND MAJOR SURFACE COMBATANTS THAT WERE UNAVAILABLE FOR OPERATIONS DURING 1977 AND 1978 BECAUSE OF OVERHAUL AND REPAIR, CONVERSION, NUCLEAR REFUELING, OR RESERVE STATUS. THIS STUDY IS PART OF CIA'S CONTRIBUTION TO AN INTERAGENCY EFFORT TO ASSESS THE OVERALL READINESS OF THE SOVIET NAVY. THE RESULTS OF THE ANALYSIS ARE AS FOLLOWS: AN AVERAGE OF 26 PERCENT OF THE SOVIET NUCLEAR-POWERED SUBMARINE FORCE WAS UNAVAILABLE FOR OPERATIONS DURING THE JANUARY 1977 THROUGH DECEMBER 1978 PERIOD. THE PERCENTAGE UNAVAILABLE RANGED FROM A LOW OF 22 (32 OF 145 SUBMARINES) TO A HIGH OF 28 (41 OF 144 SUBMARINES) DURING 1977 AND A LOW OF 23 (36 OF 158 SUBMARINES) TO A HIGH OF 30 (46 OF 154 SUBMARINES) DURING 1978.

THE PERCENTAGE OF NUCLEAR-POWERED SUBMARINES UNAVAILABLE FOR OPERATIONS DID NOT CHANGE APPRECIABLY BETWEEN THE BEGINNING OF 1977 AND THE END OF 1978, EVEN THOUGH THE NUCLEAR-POWERED SUBMARINE FORCE LEVEL INCREASED BY APPROXIMATELY 9 PERCENT. SEVENTEEN NEW NUCLEAR-POWERED SUBMARINES--EIGHT NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINES (SSBNS), ONE NUCLEAR-POWERED CRUISE MISSILE SUBMARINE, AND EIGHT NUCLEAR-POWERED ATTACK SUBMARINES--WERE ADDED TO THE FLEET DURING THE 1977-78 PERIOD, AND TWO SUBMARINES, BOTH Y-I-CLASS SSBNS, WERE DISMANTLED.

AN AVERAGE OF 29 PERCENT OF THE MAJOR SURFACE COMBATANTS WERE UNAVAILABLE FOR OPERATIONS DURING THE JANUARY 1977 THROUGH DECEMBER 1978 PERIOD. THE PERCENTAGE UNAVAILABLE RANGED FROM A LOW OF 28 (22 OF 79 SHIPS) TO A HIGH OF 31 (25 OF 81 SHIPS) DURING 1977 AND A LOW OF 26 (24 OF 92 SHIPS) TO A HIGH OF 31 (27 OF 88 SHIPS) DURING 1978.

THE PERCENTAGE OF SURFACE COMBATANTS UNAVAILABLE FOR OPERATIONS DID NOT CHANGE APPRECIABLY THROUGHOUT THE PERIOD UNTIL IT BEGAN TO DECLINE IN SEPTEMBER 1978, EVEN THOUGH THE SURFACE COMBATANT FORCE LEVEL STUDIED INCREASED BY APPROXIMATELY 14 PERCENT BETWEEN JANUARY 1977 AND DECEMBER 1978. TWELVE NEW SURFACE COMBATANTS AND ONE SHIP THAT HAD COMPLETED RADICAL CONVERSION (ONE GUIDED-MISSILE V/STOL AIRCRAFT CARRIER, THREE GUIDED-MISSILE CRUISERS, ONE GUIDED-MISSILE DESTROYER, AND EIGHT GUIDED-MISSILE FRIGATES) WERE ADDED TO THE FLEET DURING THE 1977-78 PERIOD.

DURING THE 1977 AND 1978 PERIOD, THE SOVIETS, FOR THE FIRST TIME, PLACED SEVERAL SURFACE COMBATANTS WITH SURFACE-TO-AIR MISSILE SYSTEMS IN RESERVE.

25X1

1444
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC PIR PIR045-79 MAY 79 SEC CLASS: 25D MSN: 0006P ACCN: 5087425X1

AIRCRAFT, CRUSTY TU-134 NAVIGATOR TRNG MODIF	UR
WAC NO :	BE/OBJ NO:
IUHS CODE:	EPF CAT : 05D
AIRCRAFT, COOKPOT TU-124 NAVIGATOR TRNG MODIF	UR
WAC NO :	BE/OBJ NO:
IUHS CODE:	EPF CAT : 05D

THIS REPORT PROVIDES IMAGERY-DERIVED ANALYSIS OF MODIFIED CRUSTY AND COOKPOT AIRCRAFT WHOSE EXTERNAL APPEARANCE AND OPERATING LOCATIONS IMPLY THAT THEY FUNCTION AS MILITARY NAVIGATION TRAINERS. FOR REPORTING PURPOSES, THE NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER HAS TEMPORARILY DESIGNATED THESE

1447
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

AIRCRAFT AS THE CRUSTY NAVIGATOR TRAINING MODIFIED (NAV MOD) AND THE COOKPOT NAV MOD.

25X1

NPIC PIR PIR050-79 JUN 79 Z20007-79 SEC CLASS: 05B MSN: 0006P ACCN: S087450

ELECTRONICS, TALL KING EW RADAR FACILITIES HU
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO:
ELECTRONICS, TALL KING EW RADAR FACILITIES CZ
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1

ELECTRONICS, TALL KING EW RADAR FACILITIES PL
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO:

THIS REPORT CONTAINS A TABULATION OF THE TALL KING EARLY-WARNING (EW) RADAR FACILITIES IN POLAND, EAST GERMANY, CZECHOSLOVAKIA, AND HUNGARY. A TOTAL OF 52 TALL KING SITES WERE IDENTIFIED IN THESE COUNTRIES FROM PHOTOGRAPHY OF [REDACTED] OF THESE SITES, 43 WERE OCCUPIED AND NINE WERE UNOCCUPIED AS PREVIOUSLY REPORTED.

25X1

NPIC PIR PIR053-79 JUN 79 [REDACTED] SEC CLASS: 14B MSN: 0018P ACCN: S087451

25X1

MANDALGOVI GROUND FORCES EXERCISE SOVIET MG 454459N 1061443E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 3-A
IDHS CODE: [REDACTED] EPF CAT : 35B COMIREX NO: [REDACTED]

25X1

25X1

A MAJOR SOVIET FIELD TRAINING EXERCISE WAS OBSERVED NEAR MANDALGOVI, MONGOLIA, (45-44-59N 106-14-43E) ON [REDACTED] THIS EXERCISE, COVERING AN AREA OF APPROXIMATELY 1,600 SQUARE NAUTICAL MILES (NM) INVOLVED ELEMENTS OF AT LEAST FOUR COMBAT DIVISIONS AND IS THE LARGEST SOVIET GROUND FORCES EXERCISE EVER OBSERVED ON OVERHEAD IMAGERY. THE ENTIRE EXERCISE WAS NOT IMAGED, WHICH PRECLUDED A COMPLETE ANALYSIS OF ITS SIZE AND EXTENT. HOWEVER, MOST OF THE EXERCISE WAS PROBABLY OBSERVED. THE

25X1

1448

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

EXERCISE WAS THE CULMINATION OF A LARGE-SCALE JOINT-FORCE OPERATION CONDUCTED BY THE SOUTHERN SOVIET UNION AND MONGOLIA WHICH BEGAN IN LATE FEBRUARY.

25X1

NPIC MCS MCS001-79 MAY 79 SEC CLASS: 14 MSN: 0040P ACCN: S0874525X1

25X1

MCS WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 60A COMIREX NO:

25X1

DIA IIM SBS-72519-79 13 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S0874525X1

ZHITOMIR AIRFIELD UR 501635N 0284344E
WAC NO : BE/OBJ NO: NPIC NO : - 67-P
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X25X1

DIA IIM SBS-72520-79 13 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S0874525X1

SMOLENSK AIRFIELD SOUTH UR 544441N 0320405E

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05A

NPIC NO : - 77-J
COMIREX NO:

25X1
25X1
25X1

DIA IIM 561-72524-79 13 JUN 79 SEC CLASS: 14 MSN: 0003P

ACCN: S087459

25X1

BELOGORSK AIR DEPOT WEST GSE

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05F

UR 505429N 1282712E
NPIC NO : - 14-D
COMIREX NO:

25X1
25X1
25X1

NPIC MEMO 13 JUN 79 SEC CLASS: 14B MSN: 0002P

ACCN: S087462

25X1

LYSKOVO RADIO RELAY STATION WEST

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25D

UR 560100N 0444930E
NPIC NO : - 77
COMIREX NO:

25X1
25X1

THIS MEMO DESCRIBES THE NUMBER, TYPE, AND ORIENTATIONS OF ANTENNAS AT RADIO-RELAY STATIONS ALONG THE GORKIY-KAZAN RADIO-RELAY LINE. LYSKOVO RADIO-RELAY STATION WAS THE ONLY ONE REPORTED ON. THE REMAINING STATIONS IN THE RADIO-RELAY LINE WERE EITHER NOT COVERED (VOROTYNETS, AKHMONEI, AND ISIOILSK) OR THE AVAILABLE IMAGERY WAS NOT OF SUITABLE INTERPRETABILITY (STARAYA TYURLEMA AND KAZAN).
IMAGERY USED WAS

25X1

1450
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Redacted]

25X1

NPIC IPIR [Redacted] R004-79 20 APR 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0022P ACCN: S0874225X1
IPIR [Redacted] 001/004
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 15A COMIREX NO:

[Redacted]

25X1

CIA RP GC10045K-79 APR 79 [Redacted] SEC CLASS: 14 MSN: 0002P ACCN: S0874625X1
GENERAL FLOOD DAMAGE IMPACT 1979 BR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 10D COMIREX NO:

[Redacted]

25X1

1451
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

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Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

CIA STDY

W110020K-79

JUN 79

[Redacted]

SEC CLASS: 14

MSN:

0005P

ACCN: S0874

25X1

1455
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

TOP SECRET CHESS RUFF

25X1
25X1

MISSILES, SS-18 MOD-4
WAC NO :
IDHS CODE:
BE/OBJ NO:
EPF CAT : 40A
UR
NPIC NO : -
COMIREX NO:

THIS STUDY DESCRIBES THE SS-18 MOD 4 ICBM. IT ALSO COMPARES THE SS-18 MOD 4 TO THE SS-18 MOD 2. THE SS-18 MOD 4 IS A MULTIPLE INDEPENDENTLY TARGETABLE REENTRY VEHICLE VARIANT THAT WAS FIRST FLIGHT TESTED ON 31 OCTOBER 1977. THE SS-18 MOD 4 IS MOST LIKELY INTENDED TO REPLACE THE SS-18 MOD 2. IN THE PAST YEAR, FLIGHT TESTING OF THE SS-18 MOD 2 HAS BEEN REDUCED, WHICH MAY INDICATE DECREASED SOVIET INTEREST IN THAT SYSTEM. IT IS POSSIBLE THAT THE NEW PBV AND PAYLOAD OF THE SS-18 MOD 4 WILL BE USED EVENTUALLY AS THE FOLLOW-ON TO THE SS-18 SYSTEM, WHICH IS BELIEVED TO BE IN AN EARLY STAGE OF DEVELOPMENT. ALTHOUGH FLIGHT TESTING OF THE FOLLOW-ON COULD BEGIN IN 1979, THERE IS NO RELIABLE EVIDENCE.

NAVY STDY 15 MAR 79 SEC CLASS: 14 X MSN: 0012P ACCN: S087479 25X1

AL BUMBAH AIRFIELD NORTH
WAC NO :
IDHS CODE:
BE/OBJ NO:
EPF CAT : 05A
LY 322708N 0230717E
NPIC NO : - 15
COMIREX NO:

25X1
25X1

CIA REPT W110007k-79 MAR 79 SEC CLASS: 14 MSN: 0019P ACCN: S087480 25X1

SHIPS, T CLASS SS
WAC NO :
IDHS CODE:
BE/OBJ NO:
EPF CAT : 75D
UR
NPIC NO : -
COMIREX NO:

THE T-CLASS SUBMARINE IS THE NEWEST SOVIET CLASS OF DIESEL-ELECTRIC-POWERED ATTACK SUBMARINE. IT IS A WELL-THOUGHT-OUT DESIGN INTENDED TO FUNCTION EFFECTIVELY WITHIN THE INHERENT LIMITATIONS OF THE DIESEL-ELECTRIC POWER SYSTEM. THIS REPORT CONCERNS THE SHIP CHARACTERISTICS OF THE SOVIET T-CLASS SUBMARINE. IT DOES NOT ADDRESS WEAPONS CHARACTERISTICS, AS THE T-CLASS SUBMARINE PROBABLY CAN CARRY MOST TYPES OF TORPEDOES IN THE SOVIET INVENTORY.

DIA REPT IAR004-79 APR 79 SEC CLASS: 13 MSN: 0016P ACCN: S087481 25X1

MISSILES, SS-20 REGIMENTAL FIELD EXERCISE
WAC NO :
IDHS CODE:
BE/OBJ NO:
EPF CAT : 40B
UR
NPIC NO : -
COMIREX NO:

A PROBABLE SS-20 REGIMENT ENGAGED IN A FIELD EXERCISE HAS BEEN IDENTIFIED ON PHOTOGRAPHY OF NEAR THE NOVOSIBIRSK ICBM RAIL-TO-ROAD TRANSFER POINT. THE DEPLOYMENT PATTERN OBSERVED AT THIS EXERCISE IS PROBABLY VERY SIMILAR TO THE DEPLOYMENT PATTERN WHICH AN SS-20 REGIMENT WOULD USE DURING PERIODS OF INCREASED TENSION OR ACTUAL HOSTILITIES. HOWEVER, WHILE THE EXERCISE PATTERN IS BELIEVED TO BE INDICATIVE OF WHAT WOULD BE USED DURING HOSTILITIES, IT IS EXPECTED THAT THE SS-20 FIRING UNITS WOULD MOVE FARTHER AWAY FROM THE EXISTING COMPLEX RATHER THAN TOWARD THE RAIL-TO-ROAD TRANSFER POINT, AS WAS THE CASE DURING THIS EXERCISE.

25X1
25X1

1456
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

DIA REPT IAR002-79 MAR 79 [Redacted] SEC CLASS: 13 MSN: 0011P

ACCN: S087482 25X1

MISSILES, SS-20 CANISTER TRANSPORTER UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 40B COMIREX NO:

A VEHICLE UNIQUELY ASSOCIATED WITH THE SS-20 MISSILE SYSTEM HAS BEEN IDENTIFIED AT DEPLOYED SS-20 BASES AS WELL AS AT KAPUSTIN YAR MISSILE/SPACE TEST CENTER. THE FUNCTION OF THIS VEHICLE IS TO TRANSPORT THE SS-20 CANISTER.*

[Large Redacted Area]

25X1

NPIC REPT STAR06-79 01 APR 79 [Redacted] SEC CLASS: 14 MSN: 0017P

ACCN: S087482 25X1

GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT US

1457
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 10I	COMIREX NO:	
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT		KN	
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 10I	COMIREX NO:	
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT		CH	
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 10I	COMIREX NO:	
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT		UR	
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 10I	COMIREX NO:	

[Redacted]

25X1

AF ENDR D6535-79 04 MAY 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S087490

25X1

MISSILES, ICBM TYPE 3G LAUNCH GROUP TRENCHES	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 40A	COMIREX NO:	

AF ENDR D6536-79 04 MAY 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S087491

25X1

MISSILES, ICBM TYPE 3G LAUNCH GROUP TRENCHES	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 40A	COMIREX NO:	

[Redacted]

25X1

AF PAR 572-79 19 APR 79 [Redacted] SEC CLASS: 13 MSN: 0003P ACCN: S087493

25X1

ELECTRONICS, A/V-1 COMPUTER VANS UR

1458
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1



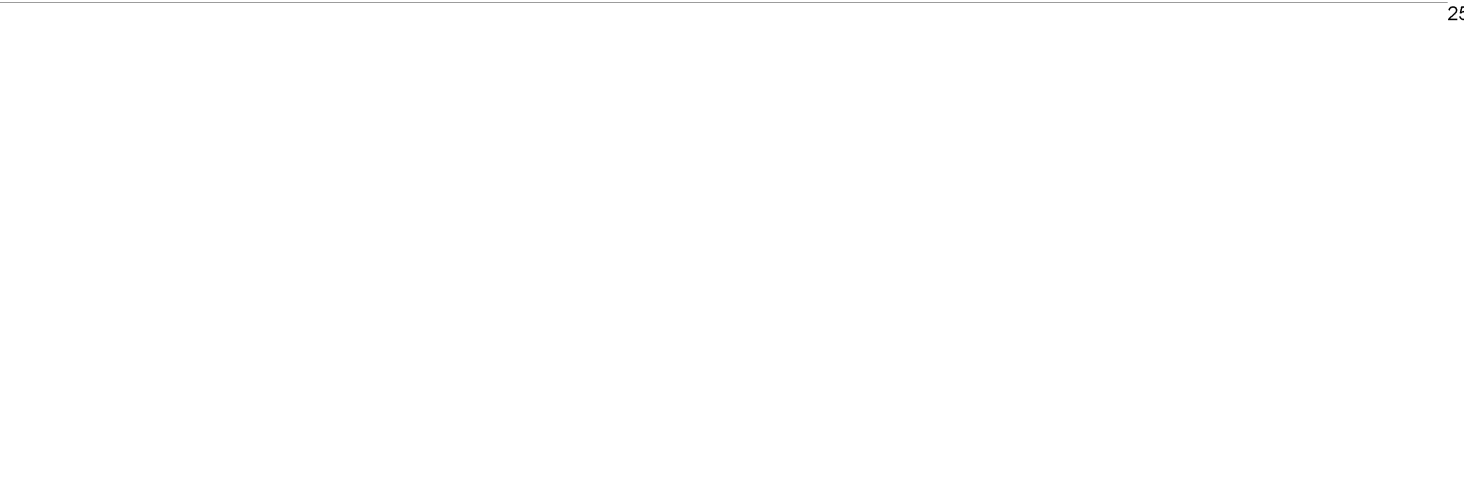
TOP SECRET CHESS RUFF



25X1
25X1

WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 25	COMIREX NO:
ELECTRONICS, SISTEMA-5N93	COMPUTER VANS	UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 25	COMIREX NO:

THIS REPORT PROVIDES A DIMENSIONAL ANALYSIS OF THE SOVIET A/V-1 AND THE SISTEMA 5N93 VANS.



25X1

AF PAR 574-79 23 APR 79 SEC CLASS: 13 MSN: 0002P ACCN: S0874925X1

AIRFIELDS, FISHBED D F-8 USE/PRODUCTION SRCH	CH	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 05A	COMIREX NO:

SIX PRC AIRFIELDS WERE REVIEWED FOR INDICATIONS OF POSSIBLE F-8 (FISHBED D) UTILIZATION OR PRODUCTION. THE AIRFIELDS EXAMINED WERE: CHANG-CHIA-KOU SOUTHEAST, CHENG-TU/WEN-CHIANG, KUO-CHUANG, WU-HU, HSI-AN/YEN-LIANG, AND MENG-TZU WEST. NO FISHBED OTHER THAN C/F MODELS WERE IDENTIFIED FROM JANUARY 1977 TO APRIL 1979.*

1459
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

AF PAR 573-79 24 APR 79 [] SEC CLASS: 13 MSN: 0020P ACCN: S087496 25X1

DNEPROPETROVSK MISSILE DPC UTKIN DESIGN BUR [] UR 482601N 0345828E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-C 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF DNEPROPETROVSK MISSILE DEVELOPMENT PRODUCTION CENTER - V. F. UTKIN DESIGN BUREAU. SPECIFIC INFORMATION PROVIDED INCLUDES: NEW CONSTRUCTION AND BUILDING EXPANSION/MODIFICATION; CONSTRUCTION CHRONOLOGY SHOWING FACILITY GROWTH BY YEAR WITHIN THE DESIGN BUREAU; AND A DESCRIPTION AND LOCATION OF ANY AEROSPACE HARDWARE OBSERVED WITHIN THE DESIGN BUREAU AND PLANT 186. THIS REPORT SUPERSEDES PARAGRAPH 2D(1), PAR 79-518; PARAGRAPH 2A, PAR 78-709; PARAGRAPH 2D(1) (A), PAR 77-567; PARAGRAPH 2D(1) (A), PAR 77-733; AND 77-599 IN THE ITS ENTIRETY.*

AF PAR 575-79 04 MAY 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S087497 25X1

MOSKVA MISSILE PROD PLT FILI 23 CHELOMEY OKB [] UR 554530N 0372928E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 46-I 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS REPORT SUPPLEMENTS PAR 77-572, AND SUPERSEDES PARAGRAPH 2D(8) (A) OF PAR 77-508; PARAGRAPH 2D(9) (A) OF PAR 77-733; AND PARAGRAPH 2D(10) (A) OF PAR 79-518. ALSO REFERENCED IS DRAWING 70C6583/4.*

25X1

AF PAR 570-79 03 MAY 79 [] SEC CLASS: 13 MSN: 0008P ACCN: S087499 25X1

IVANKOVSKIY GUIDED MISSILE PLANT [] UR 564521N 0370700E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18-A 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

1460
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1

THIS REPORT ON IVANKOVSKIY GUIDED MISSILE PLANT IS AN UPDATE OF PAR 77-510 AND SUPERSEDES PAR 78-625, PARAGRAPH 2D(1) OF PAR 77-508, PARAGRAPH 2D(2) OF PAR 77-567, PARAGRAPH 2D(2) (A) OF PAR 77-733 AND PARAGRAPH 2D(2) (A) OF PAR 79-518.

A TABULATED LISTING OF AS-9 TYPE B MISSILE CRATE AND AS-4 CRATE COUNTS IS INCLUDED.

AF PAR 559-79 02 MAY 79 [REDACTED] SEC CLASS: 13 MSN: 0009E ACCN: S08750E 25X1

SEMIPALATINSK NWPG PNUTS FACILITY OPS AREA UR 501101N 0782217F
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 33-H 25X1
IUHS CODE: [REDACTED] EPF CAT : 55A COMIREX NO: [REDACTED] 25X1

THIS REPORT AND DRAWINGS 75D6536/2, 75D6537/2, 76C3506/1, 76C4505/2, 76D4513/1, 76D4515/1, AND 76D4518/1 PROVIDE AN UPDATED ANALYSIS OF THE SEMIPALATINSK NWPG PNUTS OPS AREA. AN UPDATE OF THE FACILITY LAYOUT, THE COLUMNS, THE TUNNEL DRAWINGS, AND A TABULATION GIVING THE LOCATION OF THE LARGE CRANE ASSOCIATED WITH THE SOUTH STRUCTURE IS PROVIDED. THIS REPORT UPDATES PAR 75-646. PAR 79-522 IS ALSO REFERENCED.

CIA INFR IS10093K-79 31 MAY 79 [REDACTED] SEC CLASS: 14 MSN: 0017P ACCN: S08750E 25X1

MILITARY, GROUND FORCES ACTIVITY SUMMARY MR 5 AO
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : -
IUHS CODE: [REDACTED] EPF CAT : 35 COMIREX NO: [REDACTED]

MOST OF THE GROUND FORCES IN MILITARY REGION 5, IN SOUTHERN ANGOLA, ARE LOCATED ALONG THE MOCAMEDES-MENONGUE AXIS, WITH MAJOR INSTALLATIONS AT LUBANGO, MATALA, MENONGUE, AND CHIBIA. FARTHER SOUTH, NEAR THE NAMIBIA BORDER, MAJOR INSTALLATIONS ARE AT CAHAMA AND ONJIVA. OIA SAW EVIDENCE OF CUBAN INVOLVEMENT IN THE LUBANGO, MOCAMEDES, MATALA, MENONGUE, CHIBIA, AND CAHAMA AREAS.

CIA INFR IS10095K-79 05 JUN 79 [REDACTED] SEC CLASS: 13 MSN: 0004P ACCN: S08750E 25X1

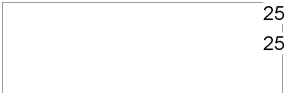
MISSILES, SS-N-6 DIMENSIONS UR
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : -
IUHS CODE: [REDACTED] EPF CAT : 40G COMIREX NO: [REDACTED]

THIS MEMORANDUM PRESENTS A REFINED DIMENSIONAL ANALYSIS OF THE SS-N-6 SUBMARINE-LAUNCHED BALLISTIC MISSILE (SLBM). THE DIMENSIONS WERE OBTAINED FROM THE BEST IMAGERY CURRENTLY AVAILABLE AND WERE PERFORMED BY NPIC'S PHOTOGRAMMETRY DIVISION. THEY ARE CONSIDERED TO BE ACCURATE TO WITHIN [REDACTED] 25X1

CIA INFR IS10090K-79 29 MAY 79 [REDACTED] SEC CLASS: 14 MSN: 0013P ACCN: S08750E 25X1

BEREZOVSKOYE COAL MINING ACTIVITY UR 5540 N 08910 E
WAC NO : 0161 BE/OBJ NO: [REDACTED] NPIC NO : -

1461
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 30A	COMIREX NO:	25X1
BORODINO COAL MINING		UR 5554 N 09454 E	
WAC NO : 0160	BE/OBJ NO:	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30A	COMIREX NO:	25X1
NAZAROVO COAL MINING ACTIVITY		UR 5600 N 09024 E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30A	COMIREX NO:	25X1
NAZAROVO THERMAL POWER PLANT GRES 1		UR 560220N 0902022E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 8-A	25X1
IDHS CODE: []	EPF CAT : 30E	COMIREX NO: []	25X1
ZAOZERNYY THERMAL POWER PLT KRASNOYARSK GRES		UR 560849N 0942851E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	
KRASNOYARSK HEAT + THERMAL POWER PLANT TETS 1		UR 560132N 0930144E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-0	25X1
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	
KRASNOYARSK HEAT + THERMAL POWER PLANT TETS 2		UR 555720N 0925920E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	

THIS STUDY DESCRIBES COAL MINING ACTIVITY AND POWER PLANT CONSTRUCTION IN AN AREA OF THE SOVIET UNION COMMONLY REFERRED TO AS THE KANSK-ACHINSK BASIN. THIS IS THE SECOND OF THREE PLANNED STUDIES OF SOVIET COAL MINING AREAS WHERE MINING ACTIVITIES ARE REPORTEDLY BEING EXPANDED. THE OTHER TWO AREAS ARE EKIBASTUZ AND KUZNETSK.

THE KANSK-ACHINSK COAL BASIN OCCUPIES AN AREA OF APPROXIMATELY 400,000 SQUARE KILOMETERS IN THE CENTRAL PORTION OF THE USSR. THE BASIN CONTAINS THREE OPEN PIT COAL MINES THAT REPORTEDLY ACCOUNT FOR APPROXIMATELY 4 PERCENT OF THE TOTAL COAL PRODUCED IN THE SOVIET UNION.

THREE LARGE THERMAL POWER PLANTS (GENERATING CAPACITY GREATER THAN 25 MEGAWATTS) ARE LOCATED IN THE BASIN AND A FOURTH IS UNDER CONSTRUCTION. ONLY ONE OF THE POWER PLANTS -- NAZAROVO -- IS LOCATED NEAR A COAL MINE BUT ANOTHER PLANT LOCATED AT ZAOZERNYY HAS A DIRECT RAIL CONNECTION TO A COAL MINE. THE OTHER TWO PLANTS, ONE OF WHICH IS UNDER CONSTRUCTION, ARE LOCATED IN THE CITY OF KRASNOYARSK. THE SOVIETS REPORTEDLY PLAN TO BUILD EIGHT LARGE POWER PLANTS AND A HIGH VOLTAGE TRANSMISSION LINE NEAR COAL MINES IN THE BASIN. NO EVIDENCE OF POWER PLANT OR HIGH VOLTAGE LINE CONSTRUCTION NEAR THE COAL MINES WAS OBSERVED ON PHOTOGRAPHY OF MARCH 1979.*

CIA INFR IS10100K-79 08 JUN 79 [] SEC CLASS: 13 MSN: 0002P ACCN: S087504 25X1

SALISBURY AIRFIELD AIRBORNE ASSAULT PREP POSS	RH 175522S 0310605E		
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 1	25X1
IDHS CODE: []	EPF CAT : USA	COMIREX NO: []	25X1

OIA HAS BEEN ATTEMPTING TO IDENTIFY INDICATORS FROM PHOTOGRAPHY OF FORTHCOMING RHODESIAN OPERATIONS AGAINST GUERRILLAS. THE VALIDITY OF THESE INDICATORS WAS CONFIRMED THROUGH DISCUSSIONS WITH A DDO CASE

1462
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

OFFICER. OIA OBSERVED SOME OF THESE INDICATORS ON [REDACTED] SURE OF THEIR FULL MEANING.

25X1

CIA INFR IS10084K-79 29 MAY 79 [REDACTED] SEC CLASS: 13 MSN: 0006P ACCN: S087506 25X1

INDUSTRY, STEAM PLTS/POL STGE NEW SS-20 BASES	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 30C
STORAGE, POL AREAS/STEAM PLTS NEW SS-20 ASSOC	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 80A
MISSILES, SS-20 BASES STEAM PLTS/POL STGE NEW	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 80A

NEW STEAM PLANTS WITH ASSOCIATED POL STORAGE AREAS ARE BEING CONSTRUCTED AT FIVE OF THE SIX SS-20 MOBILE INTERMEDIATE-RANGE BALLISTIC MISSILE (IRBM) BASES IN THE WESTERN USSR, AND AT THE RECHITSA REGIONAL SS-20 SUPPORT DEPOT, ALSO IN THE WESTERN USSR. THESE NEW FACILITIES WILL APPARENTLY DOUBLE THE PREVIOUS STEAM PRODUCTION CAPABILITIES OF THE BASES. THE BASES ARE POSTAVY, SMORGON, KONKOVICHI, KOZHANOVICHI, AND MOZYR.

CIA INFR IS10085K-79 29 MAY 79 [REDACTED] SEC CLASS: 14 MSN: 0006P ACCN: S087506 25X1

MOSKVA MISSILE + SPA DEV CTR CENTRAL DSGN BUR	UR	555517N 0374805E
WAC NO :	BE/OBJ NO:	NPIC NO : - 47
IDHS CODE:	EPF CAT : 40H	COMIREX NO:
MOSKVA MISSILE + SPA DEV CTR CENTRAL DSGN BUR	UR	555517N 0374805E
WAC NO :	BE/OBJ NO:	NPIC NO : - 47
IDHS CODE:	EPF CAT : 40E	COMIREX NO:

AT THE MOSKVA MISSILE AND SPACE DEVELOPMENT CENTER KALININGRAD 88, SPACECRAFT FOR BOTH MANNED AND UNMANNED SPACE MISSIONS ARE APPARENTLY DESIGNED AND PRODUCED IN AN AREA KNOWN AS THE CENTRAL DESIGN BUREAU FOR SPACE AND INTERCONTINENTAL ROCKETS. GENERAL-PURPOSE CONTAINERS FOR SUCH PAYLOADS, OR MAJOR COMPONENTS OF SUCH PAYLOADS, HAVE BEEN PRESENT IN THIS SECTION OF KALININGRAD 88 SINCE AT LEAST 1967. IN ADDITION, CONSTRUCTION NOW UNDERWAY IN THE DESIGN BUREAU MAY INDICATE PREPARATIONS FOR PRODUCTION OF ANOTHER NEW PAYLOAD.

25X1

1463
TOP SECRET CHESS RUFF

25X1
25X1

Page Denied

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

[Large Redacted Area]

25X1

NPIC SR SR033-79 JUN 79 [Redacted] SEC CLASS: 14B MSN: 0007P ACCN: S08751 25X1

SEMIPALATINSK NWP6 DEGELEN TEST ACTIVITY UR 494600N 0774600E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 33-J1

25X25X1

1465
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 55A COMIREX NO: []

25X1

FOUR SIMILAR SETS OF UNUSUAL TEST PREPARATIONS WERE OBSERVED AT THE SEMIPALATINSK DEGELEN MOUNTAIN TEST AREA, USSR, BETWEEN JUNE 1973 AND APRIL 1979. THESE PREPARATIONS MAY HAVE BEEN ASSOCIATED WITH VERY LOW-YIELD NUCLEAR OR SAFETY TESTS. THE SIMILARITIES AMONG THESE FOUR TEST LOCATIONS AND SETS OF PREPARATIONS ARE THE LACK OF A MOBILE CONTROL POINT (MCP), THE ABSENCE OF SURFACE DISTURBANCES AND SEISMIC SIGNALS, THE PRESENCE OF A SMALL FORWARD RECORDING SITE (FRS), AND THE PREVIOUS USE OF ALL OF THE TEST TUNNELS FOR ROUTINE NUCLEAR TESTS. THE TEST PREPARATIONS WERE OBSERVED AT ADIT 2AB BETWEEN []

25X1
25X1

ALTHOUGH A RELATIVELY SMALL AMOUNT OF INSTRUMENTATION WAS PLACED IN AN FRS AT EACH SITE, JUDGING FROM THE AVAILABLE FLOORSPACE, THE EXPERIMENTS HAVE BECOME MORE HEAVILY INSTRUMENTED WITH EACH SUCCEEDING SET OF PREPARATIONS.

NPIC PIR PIR044-79 JUN 79 [] SEC CLASS: 14 MSN: 0008P ACCN: S087518

25X1

PUNTA MOVIDA NAVAL FACILITY PROB CONST ACT CU 220315N 0802640W
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 51-U3
IDHS CODE: [] EPF CAT : 75B COMIREX NO: []

25X1
25X1

THE PUNTA MOVIDA NAVAL FACILITY IS UNDER CONSTRUCTION IN CUBA IN THE SOUTHERN PORTION OF THE BAY OF CIENFUEGOS, APPROXIMATELY 4.5 NAUTICAL MILES (NM) SOUTH OF THE CITY OF CIENFUEGOS AND 120 NM SOUTHEAST OF HAVANA. WHEN COMPLETE, THIS INSTALLATION WILL BE THE LARGEST NAVAL FACILITY ON THE SOUTHERN COAST OF CUBA AND ONE OF THE LARGEST IN THE ENTIRE COUNTRY. THIS REPORT INCLUDES A LOCATION MAP AND SIX ANNOTATED PHOTOGRAPHS.

NPIC SR SR032-79 JUN 79 Z20006-79 SEC CLASS: 05C MSN: 0005P ACCN: S087519

KUUM NI AIRFIELD U/C KN 385145N 1275419E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 44-M3
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
NUCHON NI AIRFIELD PROB U/C KN 381410N 1260730E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 143-B1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
KUNSON AIRFIELD U/C KN 402130N 1284300E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 136-A7
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
AIRFIELDS, CONSTRUCTION ACTIVITY KN
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1
25X1
25X1

CONTINUING CONSTRUCTION ACTIVITY WAS OBSERVED ON IMAGERY OF [] AT THREE NEW JET-CAPABLE AIRFIELDS IN NORTH KOREA. THE NEW AIRFIELDS ARE KUUM-NI, NUCHON-NI, AND KUNSON. EACH NEW AIRFIELD IS

25X1

1466
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
ZSA1

NEAR AN EXISTING HIGHWAY AIRSTRIP AND IS NOT YET OPERATIONAL.

[Redacted]

25X1

NPIC PIR PIR047-79 JUN 79 [Redacted] SEC CLASS: 14A MSN: 0005P ACCN: 508752-25X1

ELECTRONICS, TROPOSCATTER ANTENNA STATIONS IN
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25D COMIREX NO:

INDIAN TROPOSCATTER STATIONS ARE USED AS COMMAND AND CONTROL COMMUNICATIONS FOR THE AIR DEFENSE SYSTEM. THIS IS EVIDENT BY THE CLOSE PROXIMITY OF THE MAJORITY OF THE TROPOSCATTER STATIONS TO AIRFIELDS AND EXISTING AIR-WARNING RADAR SITES, THE REVETTING OF CONTROL BUILDINGS, THE PRESENCE OF MICROWAVE ANTENNA TOWERS, AND THE LOCATION OF STATIONS ALONG THE PAKISTANI BORDER.

THE 16 KNOWN TROPOSCATTER ANTENNA STATIONS AND THE TROPOSCATTER PRODUCTION PLANT IN INDIA, AS OBSERVED ON SATELLITE IMAGERY FROM [Redacted] ARE SUMMARIZED IN THIS REPORT.

25X1

[Redacted]

25X1

1467
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-72505-79 13 JUN 79 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S087523 25X1

KONSTANTINOVSKIY ARMY BARRACKS UR 574612N 0393425E
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1

DIA IIM 5B3-72530-79 15 JUN 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: S087524 25X1

KISKUNLACHAZA AIRFIELD FLOGGER MIG-23 A/C HU 471041N 0190426E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 62
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

DIA IIM 5B3-73540-79 15 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S087525 25X1

BOLSHOY TOKMAK AIRFIELD UR 471717N 0354238E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 66
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

DIA IIM 5B3-73539-79 18 JUN 79 [] SEC CLASS: 13 MSN: [] 0003P ACCN: S087527 25X1

AIRFIELDS, LRA AIRFIELDS MAINTENANCE ACTIVITY UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

1468
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35F

NPIC NO : - 29-H1
COMIREX NO: [Redacted]

25X1
25X1

DIA IIM 5B1-72526-79 18 JUN 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0002P

ACCN: S0875225X1

SALAVAT PETROLEUM REFINERY + CHEMICAL COMBINE

UR 532438N 0555400E

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 30B

NPIC NO : - 26
COMIREX NO: [Redacted]

25X1
25X1

SALAVAT PETROLEUM REFINERY + CHEMICAL COMBINE

UR 532438N 0555400E

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 30F

NPIC NO : - 26
COMIREX NO: [Redacted]

25X1
25X1

[Large Redacted Block]

25X1

DIA IIM 5B1-72527-79 20 JUN 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0005P

ACCN: S0875325X1

ARTEMOVSK ORDNANCE DEPOT D01

UR 483357N 0375750E

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35F

NPIC NO : -
COMIREX NO:

25X1

[Redacted Block]

25X1

NPIC MEMO [Redacted] 19 JUN 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0002P

ACCN: S087525X1

1469
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

VOROVSKOLESSKAYA RADIO RELAY STATION

WAC NO :

BE/OBJ NO:

UR 441750N 0422000E

IDHS CODE:

EPF CAT : 25D

NPIC NO : - 74-E

COMIREX NO:

25X25X1

THIS MEMO DESCRIBES VOROVSKOLESSKAYA RADIO-RELAY STATION. IMAGERY USED WAS

25X1

25X1

1470

TOP SECRET CHESS RUFF

25X1

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA IRP 1S10043K-79 JUN 79 SEC CLASS: 14B MSN: 0015P ACCN: S087558 25X1

PECHORA PHASED-ARRAY RADAR FACILITY

UR 651238N 0571722E

WAC NO :

BE/OBJ NO:

NPIC NO : - 29-A 25X1

1474
TOP SECRET CHESS RUFF

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

TOP SECRET CHESS RUFF

25X1

IUHS CODE: []	EPF CAT : 25A	COMIREX NO: []
LYAKI PHASED-ARRAY RADAR FACILITY		UR 405208N 0474913E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 156
IUHS CODE: []	EPF CAT : 25A	COMIREX NO: []
ELECTRONICS, PLANAR RADARS PECHORA EAST/WEST		UR []
WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IUHS CODE: []	EPF CAT : 25C	COMIREX NO: []

25X1

25X1

25X1

ANALYSIS OF IMAGERY OBTAINED DURING FOUR YEARS OF CONSTRUCTION ACTIVITY AT THE BALLISTIC MISSILE EARLY WARNING (BMEW) RADARS AT PECHORA AND LYAKI HAS REVEALED SIGNIFICANT DETAILS ABOUT CONSTRUCTION MATERIALS AND METHODS AS WELL AS THE CONFIGURATION OF THE ANTENNAS AND SUPPORT FACILITIES. THE TWO RADAR SYSTEMS APPEAR TO BE IDENTICAL. THEY ARE LARGE, PROBABLY BI-STATIC, PLANAR PHASED ARRAYS WITH THE TRANSMITTING AND RECEIVING ANTENNAS BUILT INTO INCLINED SURFACES ON SEPARATE OPERATIONS BUILDINGS. THE ASSEMBLY OF THESE COMPLEX ANTENNAS STRUCTURES WAS SIMPLIFIED THROUGH THE USE OF MODULAR COMPONENTS.

THE COOLING SYSTEMS AT BOTH RADAR FACILITIES WILL PROBABLY BE CLOSED-LOOP SYSTEMS, WHICH COULD INDICATE THE PRESENCE OF A SPECIAL COOLANT. A CLOSED-LOOP SYSTEM WOULD HELP INSURE THE PURITY OF A SPECIAL COOLANT, PROTECTING IT FROM CONTAMINATION FROM THE ENVIRONMENT. THE LOSS OF COOLANT THROUGH EVAPORATION AND THE EFFECTS OF EXTREME CLIMATE COULD BE MINIMIZED IN A CLOSED-LOOP SYSTEM.

ANALYSIS OF THE ELECTRIC POWER FACILITIES INDICATES THAT A SEPARATE ELECTRICAL SUBSTATION AT PECHORA AND A PORTION OF THE MAIN SUBSTATION AT LYAKI APPEAR TO PROVIDE MOST IF NOT ALL OF THEIR POWER TO THE TRANSMITTERS. NO SPECIAL POWER FACILITIES HAVE BEEN BUILT FOR THE RECEIVERS.

CIA IRP IS10087K-79 JUN 79 [] SEC CLASS: 25 MSN: 0011P ACCN: S08755 25X1

KURUMOCH ROCKET ENG TEST FAC	ACOUSTICAL TEST	UR 533215N 0495116E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 38
IUHS CODE: []	EPF CAT : 40E	COMIREX NO: []

25X1

25X1

COMPARISON OF IMAGERY OF THE KURUMOCH ROCKET ENGINE TEST FACILITY AND THE MARSHALL SPACE FLIGHT CENTER, ALABAMA, HAS RESULTED IN THE IDENTIFICATION OF AN ACOUSTICS TEST AREA AT KURUMOCH. THE MAIN FUNCTION OF SUCH AREAS IS THE TESTING OF SCALE MODELS OF BOTH LAUNCH VEHICLES AND LAUNCH AND TEST FACILITIES TO MEASURE THE ACOUSTIC PRESSURE AND VIBRATION LEVELS REACHED DURING THE TEST FIRING OF THE SYSTEM. THESE LEVELS CAN BE HAZARDOUS TO BOTH PERSONNEL AND HARDWARE, AS IN THE CASE OF THE TT-05, AN EXPERIMENTAL SOVIET SPACE LAUNCH VEHICLE, WHICH IS THOUGHT TO HAVE FAILED BECAUSE OF THE HIGH ACOUSTIC LEVELS IT GENERATED. DETECTION OF SUCH LEVELS EARLY IN A RESEARCH AND DEVELOPMENT PROGRAM WOULD LEAD TO DESIGN MODIFICATIONS TO FULL-SIZED HARDWARE, AND COULD SAVE SUBSTANTIAL AMOUNTS OF BOTH TIME AND MONEY.

THE ACOUSTIC TEST AREA AT KURUMOCH, LIKE THE ONE AT MARSHALL, HAS THREE MAIN FEATURES: 1) A SEMICIRCULAR CONCRETE HARDSTAND WITH INSTRUMENTATION POSITIONS FOR ACOUSTIC SENSORS; 2) A TEST STAND FOR THE FIRING OF SCALE MODELS; AND 3) A CONTROL BUILDING. THE TEST FIRING OF MODELS AT KURUMOCH WILL LIKELY OCCUR IN A HORIZONTAL MODE FROM A POSITION ABOUT [] ABOVE THE HARDSTAND. THE PRESENCE OF TWO POSSIBLE DIFFUSERS INDICATES TESTING OF MODELS OF BOTH UPPER AND LOWER STAGES IS PLANNED. MOBILE ACOUSTIC SENSORS AT KURUMOCH WILL REDUCE THE NUMBER OF FIXED POSITIONS REQUIRED FOR ACOUSTIC MEASUREMENTS THERE.

25X1

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

THE TEST AREA AT KURUMOCH WILL BE COMPLETED DURING 1979 AND WILL PROBABLY BE PRIMARILY USED FOR TESTING LIQUID PROPELLANT MODELS ALTHOUGH IT WILL ALSO BE CAPABLE OF TESTING SOLID PROPELLANT MODELS. THE FIRST TESTS AT THE AREA WILL POSSIBLY BE OF A COMPONENT OF V.P. GLUSHKO'S NEW SPACE LAUNCH VEHICLE. CONSTRUCTION AT TYURATAM MISSILE TEST CENTER INDICATES THIS NEW LAUNCH VEHICLE WILL BE FLIGHT TESTED THERE AND THAT IT WILL PROBABLY BE USED IN THE SOVIET SPACE SHUTTLE PROGRAM.

CIA IRP IS10065K-79 JUN 79 SEC CLASS: 14E MSN: 0013P ACCN: 5087560 25X1

INDUSTRY, GEOTHERMAL POWER FACILITIES	UR	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 30E	COMIREX NO:
UZERNOVSKIY GEOTHERMAL POWER PLANT PAUZHETKA	UR 512745N 1564740E	
WAC NO :	BE/OBJ NO:	NPIC NO : - 18
IDHS CODE:	EPF CAT : 30E	COMIREX NO:
PARATUNKA GEOTHERMAL POWER PLANT	UR 525745N 1581500E	
WAC NO :	BE/OBJ NO:	NPIC NO : - 35
IDHS CODE:	EPF CAT : 30E	COMIREX NO:
APACHA GEOTHERMAL POWER PLANT BOLSHE BANNAYA	UR 525430N 1573000E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 30E	COMIREX NO:
KUNASHIK GEOTHERMAL POWER STATION	UR 435939N 1454752E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 30E	COMIREX NO:
AVACHINSKAYA GEOTHERMAL POWER STATION	UR 531518N 1590837E	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 30E	COMIREX NO:

ACTIVITY RELATED TO THE DEVELOPMENT OF GEOTHERMAL ENERGY HAS BEEN IDENTIFIED ON PHOTOGRAPHY AT FIVE OF EIGHT LOCATIONS WHERE THE SOVIETS HAVE REPORTED GEOTHERMAL POWER PLANTS. FOUR THE FIVE SITES -- PAUZHETKA, PARATUNKA, APACHA, AND AVACHINSKAYA -- ARE ON THE SOUTHERN TIP OF THE KAMCHATKA PENINSULA AND THE FIFTH SITE, IS IN THE KURILE ISLANDS.

PAUZHETKA AND PARATUNKA ARE THE ONLY TWO SITES WHICH CONTAIN ELECTRIC POWER GENERATING FACILITIES. THE PLANT AT PAUZHETKA USES STEAM FROM HOT WATER DEPOSITS TO RUN TWO TURBINE-GENERATORS, AND SUPPLIES POWER TO TWO VILLAGES VIA A 35-KILOVOLT TRANSMISSION LINE. THE PARATUNKA FACILITY IS REPORTED TO BE A 750-KILOWATT BINARY-CYCLE GEOTHERMAL PLANT USING HOT WATER TO VAPORIZE FREON WHICH IS THEN USED TO DRIVE THE TURBINE-GENERATOR. THE PLANT APPEARS TO BE ACTIVE BUT NO POWER TRANSMISSION FACILITIES COULD BE IDENTIFIED. THE ACTIVITY AT APACHA AND KUNASHIR APPEARS TO BE IN AN EXPERIMENTAL PHASE AT THIS TIME WITH NO ELECTRIC GENERATING FACILITIES PRESENT. AVACHINSKAYA HAS NOT PROGRESSED BEYOND A VERY EARLY STAGE OF DEVELOPMENT AND CONSISTS PRIMARILY OF SURFACE EXCAVATIONS AND A NUMBER OF BOREHOLES.

NO ACTIVITY WAS FOUND THAT COULD BE RELATED TO GEOTHERMAL ENERGY DEVELOPMENT WITHIN A 35-KILOMETER RADIUS OF REPORTED GEOTHERMAL POWER PLANTS AT KOSHELEVSK AND MUTNOVSKIY, BOTH ON KAMCHATKA, OR AT MAKHACHKALA, ON THE WESTERN SHORE OF THE CASPIAN SEA.

1476
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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NPIC BIIR RCA09-0011-79 JUN 79 SEC CLASS: 25B MSN: 0026P ACCN: S087525X1

MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88	UR 555517N 0374805E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 47
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88	UR 555517N 0374805E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 47
IDHS CODE: []	EPF CAT : 40H	COMIREX NO: []
FAUSTOVO AEROSPACE R+D FACILITY	UR 552746N 0383143E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 50-B
IDHS CODE: []	EPF CAT : 40H	COMIREX NO: []
MOSKVA GUIDED MISSILE R+D PLANT KHIMKI 301	UR 555350N 0372556E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 100
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
ZAGORSK MISSILE + SPACE DEVELOPMENT CENTER	UR 562710N 0380435E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 73-D
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
ZAGORSK MISSILE + SPACE DEVELOPMENT CENTER	UR 562710N 0380435E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 73-D
IDHS CODE: []	EPF CAT : 40H	COMIREX NO: []
MOSKVA MISSILE/SPACE PRPLN DEV CTR KHIMKI 456	UR 555420N 0372651E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 48
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
MOSKVA MISSILE/SPACE PRPLN DEV CTR KHIMKI 456	UR 555420N 0372651E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 48
IDHS CODE: []	EPF CAT : 40H	COMIREX NO: []
ZAGORSK ROCKET ENGINE TEST FAC KRASNOZAVODSK	UR 562544N 0381055E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 93
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
KURUMOCH ROCKET ENGINE TEST FACILITY	UR 533215N 0495116E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 38
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
NIZHNYAYA SALDA ROCKET ENGINE TEST FACILITY	UR 580930N 0605602E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 29-F
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
MOSKVA MISSILE PRODUCTION PLANT FILI 23	UR 554530N 0372928E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 46-1
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
KUYBYSHEV AEROSPACE PRODUCTION PLANT 1	UR 531315N 0501804E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 19
IDHS CODE: []	EPF CAT : 40H	COMIREX NO: []
SPACE, R+D/PRODUCTION FACILITIES	UR	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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IDHS CODE: EPF CAT : 40H COMIREX NO:

THIS REPORT DESCRIBES RECENT DEVELOPMENTS AT TEN SOVIET SPACE-RELATED RESEARCH, DEVELOPMENT, AND PRODUCTION FACILITIES AND UPDATES NPIC REPORT, PROBABLE MAN-RELATED SPACECRAFT HAVE BEEN NEWLY IDENTIFIED AT TWO FACILITIES. AT MOSKVA MISSILE AND SPACE DEVELOPMENT CENTER KALININGRAD 88, FURTHER ANALYSIS OF AN AERODYNAMICALLY SHAPED OBJECT OBSERVED IN JUNE 1974 INDICATES THAT IT MAY BE A MOCKUP OF THE COSMOS 881/882 MAN-RELATED REENTRY SYSTEM SPACECRAFT. A NEW PROBABLE SPACE STATION WAS OBSERVED IN THE COMPONENTS TEST AREA OF THE FAUSTOVO AEROSPACE RESEARCH AND DEVELOPMENT FACILITY. AT MOSKVA GUIDED MISSILE RESEARCH AND DEVELOPMENT PLANT KHIMKI 301, NEW CONSTRUCTION RESEARCH AND DEVELOPMENT-RELATED FACILITIES, INCLUDING A LARGE PROBABLE CENTRIFUGE, IS PROBABLY RELATED TO FUTURE SOVIET UNMANNED SPACE PROGRAMS. AT ZAGORSK MISSILE AND SPACE DEVELOPMENT CENTER, WORK HAS BEEN COMPLETED ON THE SUBSCALE MODEL OF THE TYURATAM SPACE LAUNCH SITE J1/2 LAUNCH PADS; TEST ACTIVITY MAY BEGIN AT THIS SITE IN THE NEAR FUTURE. IN ADDITION, UNIDENTIFIED CONSTRUCTION ACTIVITY AT ZAGORSK MAY BE FOR NEW TEST FACILITIES. A NEW EXHAUST GAS SCRUBBER WAS UNDER CONSTRUCTION AT MOSKVA MISSILE AND SPACE PROPULSION DEVELOPMENT CENTER KHIMKI 456 WHICH WILL ADD SIGNIFICANTLY TO THE SOVIET CAPABILITY TO DEVELOP AND TEST UPPER STAGE ROCKET ENGINES USING TOXIC PROPELLANTS.

25X1

CONSTRUCTION ACTIVITY AT ALL OF THE SOVIET SPACE-RELATED ROCKET ENGINE TEST FACILITIES IS AN INDICATION OF A DESIRE TO INCREASE THE CAPACITY FOR RUN-TESTING OF ENGINES AND ALSO TO ADD NEW TEST CAPABILITIES TO THESE FACILITIES. A NEW AREA FIRST OBSERVED UNDER CONSTRUCTION AT ZAGORSK ROCKET ENGINE TEST FACILITY (RETF) IN 1973 MAY BE FOR BASIC SPACE-RELATED RESEARCH, INCLUDING SIMULATED SPACE FLIGHT. AT KURUMOCH RETF, THE NEW TEST AREA IS SIMILAR IN CONFIGURATION TO THE ACOUSTIC MODEL TEST FACILITY AT MARSHALL SPACE FLIGHT CENTER IN HUNTSVILLE, ALABAMA, ALTHOUGH IT MAY HAVE OTHER, UNDETERMINED TEST FUNCTIONS. THE NEW LARGE, VERTICAL ROCKET ENGINE TEST STAND AT NIZHNYAYA SALDA RETF IS ALMOST COMPLETE AND PROPELLANT-RUN TANKS HAVE BEEN INSTALLED BOTH WITHIN THE STAND AND REMOTELY FROM IT. AT MOSKVA MISSILE PRODUCTION PLANT FILI 23, THE CONSTRUCTION OF A NEW PROBABLE VERTICAL ASSEMBLY/HYDROSTATIC TEST BUILDING WILL EXPAND THE DEVELOPMENT FACILITIES FOR SPACE LAUNCH VEHICLES. UNUSUAL SHIPPING CONTAINERS CONTINUE TO BE SEEN AT KUYBYSHEV AEROSPACE PRODUCTION PLANT 1, INDICATING THAT SPACE LAUNCH VEHICLES ARE STILL BEING PRODUCED.

THIS REPORT INCLUDES A LOCATION MAP AND 25 ANNOTATED PHOTOGRAPHS. THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 1 FEBRUARY 1979.

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1478 TOP SECRET CHESS RUFF

25X1 25X1

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TOP SECRET CHESS RUFF

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AF PAR 2-79 21 MAR 79 SEC CLASS: 07 MSN: 0002P ACCN: S087567

ELECTRONICS, WISHBONE ANTENNA

PL

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25 COMIREX NO:

AF PAR 601-79 31 MAY 79 SEC CLASS: 13 MSN: 0002P ACCN: S087568 25X1

SHIKHANY CWP6 FIELD TEST AREA

UR 520150N 0470440E

WAC NO : BE/OBJ NO: NPIC NO : - 33-A1
IDHS CODE: EPF CAT : 13C COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES AN ANALYSIS AND DESCRIPTION OF THE CORNER MARKERS AT GRID 21, SHIKHANY CWP6 FIELD TEST AREA.*

AF PAR 580-79 25 MAY 79 SEC CLASS: 13 MSN: 0006P ACCN: S087569 25X1

LASA SSM/SPACE TRACKING FACILITY

CH 293855N 0910516E

WAC NO : BE/OBJ NO: NPIC NO : - 2-Q2
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF THE LA-SA SSM/SPACE TRACKING FACILITY WITH PARTICULAR ATTENTION FOCUSED ON THE ELECTRONICS ANTENNAS AT THIS FACILITY. CHANGES IN TYPES AND AZIMUTHS OF COMMUNICATIONS ANTENNAS, IF ANY, ARE INCLUDED. DRAWING 79C6527 SUPPLEMENTS THIS REPORT.*

AF PAR 590-79 21 MAY 79 SEC CLASS: 13 MSN: 0003P ACCN: S087570 25X1

TULA MISSILE DESIGN BUREAU SUSP IDENT

UR 541205N 0373510E

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

KOLOMNA MISSILE DESIGN BUREAU 2 SUSP IDENT

UR 550440N 0384920E

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

KOLOMNA MISSILE DESIGN BUREAU 1 SUSP IDENT

UR 550410N 0384810E

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1.1

25X1

148U
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

AF PAR 591-79 21 MAY 79 [Redacted] SEC CLASS: 13 MSN: 0002P ACCN: S08757425X1

AIRCRAFT, FIREBAR YAK-28 GUN ARMAMENT SEARCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

AF PAR 587-79 14 MAY 79 [Redacted] SEC CLASS: 13 MSN: 0004P ACCN: S08757525X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155 UR 554846N 0373034E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 97-B1
IDHS CODE: [Redacted] EPF CAT : 05G COMIREX NO: [Redacted]

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TOP SECRET CHESS RUFF [Redacted]

[Redacted]

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TOP SECRET CHESS RUFF

25X1

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF THE MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155. IT SPECIFICALLY IDENTIFIES NEW CONSTRUCTION, BOUNDARY CHANGES, AND HARDWARE ITEMS AND PROVIDES AN ACCOUNTING OF NEW ROOF COVERAGE AND FLOORSPACE AS WELL AS IDENTIFYING HARDENING OR CIVIL DEFENSE FEATURES. THIS REPORT SUPERSEDES PAR 78-581, PARAGRAPH 2B (4) OF PAR 79-518, AND SUPPLEMENTS PAR 76-517.*

25X1

AF PAR 588-79 16 MAY 79 SEC CLASS: 13 MSN: 0004P ACCN: S087577 25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115 UR 554817N 0373126E
WAC NO : BE/OBJ NO: NPIC NO : - 46-C1
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS REPORT AND DRAWING NUMBER 76C6503/3 PROVIDES AN UPDATED ANALYSIS OF THE MOSKVA EXPERIMENTAL PLANT 115 (YAKOVLEV OKB). NEW CONSTRUCTION AND BOUNDARY CHANGES ARE IDENTIFIED AND TABLES PROVIDING ROOF COVERAGE AND FLOORSPACE ARE INCLUDED.

THIS REPORT UPDATES PAR 76-516. IT ALSO SUPERSEDES PAR 78-583 AND PARAGRAPH 2.B. (7) OF PAR 79-518.*

AF PAR 535-79 04 MAY 79 SEC CLASS: 13 MSN: 0005P ACCN: S087578 25X1

SHUANGCHENG-TZU MTC ICBM SITE B1/2 MENSURATION CH 411828N 1001854E
WAC NO : BE/OBJ NO: NPIC NO : - 1-N
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

THIS REPORT AND ASSOCIATED DRAWINGS 73C4507/4, 77C4517/1 AND 79C4513 VERIFIES THE POSITIONING AND APERTURE DIAMETERS OF THE B1 SERVICE TOWER PLATFORMS AND ANALYZES THE SIXTH SERVICE PLATFORM ADDED IN 1977; DETERMINES THE POSITIONING AND CONFIGURATION OF UMBILICAL HEADERS ON THE B1 AND B2 SERVICE TOWERS; VERIFIES THE ASSESSED CONFIGURATION/DIMENSIONS OF THE B1 AND B2 LAUNCH STANDS; AND VERIFIES THE POSITIONING OF THE B2 SERVICE TOWER PLATFORMS AT SHUANG-CHENG-TZU MTC ICBM SITE B1/2. ADDITIONAL REFERENCES INCLUDE PARS 74-697 AND 73-556.*

AF PAR 579-79 07 MAY 79 SEC CLASS: 13 MSN: 0010P ACCN: S087579 25X1

MOSKVA MISSILE/SPACE DEV CTR ISAYEV DSGN BUR UR 555517N 0374805E

1482
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1
25X1

WAC NO :	BE/OBJ NO:	NPIC NO :	- 47
IDHS CODE:	EPF CAT :	COMIREX NO:	
MOSKVA MISSILE/SPACE DEV CTR	ISAYEV DSGN BUR	UR	55517N 0374805E
WAC NO :	BE/OBJ NO:	NPIC NO :	- 47
IDHS CODE:	EPF CAT :	COMIREX NO:	

25X1
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25X1
25X1

THIS REPORT, DRAWING 70D4505 (REVISION 2), AND DRAWING 79C6526 PROVIDES AN UPDATED ANALYSIS OF THE ISAYEV ROCKET ENGINE DESIGN BUREAU LOCATED IN THE SOUTHERN PORTION OF THE KALININGRAD 88 COMPLEX. THIS REPORT CONTAINS THE INFORMATION IN, AND THUS SUPERSEDES, THE PORTIONS OF PAR 75-584 WHICH DEAL WITH THE 'UNIDENTIFIED MANUFACTURING AREA', NOW KNOWN AS THE ISAYEV DESIGN BUREAU. THE TABULATION IN PARAGRAPH 3A, SUPERSEDES PARAGRAPH 4D, PAR 75-584; PARAGRAPH 2D(8) (B), 77-567; PARAGRAPH 2D(8) (C), PAR 77-733; AND PARAGRAPH 2D(9) (C), PAR 79-518. DRAWING 79C6526 SUPERSEDES THE PORTION OF DRAWING 75E6520 WHICH PORTRAYS THE 'UNIDENTIFIED MANUFACTURING AREA'.*

AF PAR 589-79 14 MAY 79 [] SEC CLASS: 13 MSN: 0002P ACCN: S087580 25X1

RAMENSKOYE FLIGHT TEST CENTER FORGER V/STOL UR 553418N 0380923E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 50
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

AF PAR 564-79 15 MAY 79 [] SEC CLASS: 13 MSN: 0017P ACCN: S087581 25X1

MOSKVA MISSILE + SPACE DEV CTR MISSILE PLT 88 UR 55517N 0374805E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 MOSKVA MISSILE + SPACE DEV CTR MISSILE PLT 88 UR 55517N 0374805E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
 IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X1
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THIS REPORT AND DRAWING NUMBER 70D6505/2 PROVIDES AN UPDATED ANALYSIS OF THE MOSKVA MISSILE AND SPACE DEVELOPMENT CENTER KALININGRAD 88 - MISSILE PLANT 88. A CHRONOLOGY OF THE GROWTH OF THE FACILITY AND A FUNCTIONAL ASSESSMENT OF THE BUILDINGS ARE INCLUDED. IT ALSO PROVIDES INFORMATION ON AEROSPACE HARDWARE, INCLUDING CRATES/CANISTERS AT THE FACILITY. THE ANALYSIS INCLUDES INFORMATION THROUGH CALENDAR YEAR 1978.
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1483
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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25X1

AF PAR 563-79 08 MAY 79 [] SEC CLASS: 13 MSN: 0009P ACCN: 5087583

TENSHHAHO SSM RTP PROB		CH 391506N 1220520E	
WAC NO :	[]	NPIC NO :	- 25-C
IDHS CODE :	[]	COMIREX NO :	[]
TENSHHAHO SSM FIELD TRAINING POSITION		CH 390911N 1220453E	
WAC NO :	[]	NPIC NO :	- 56-C
IDHS CODE :	[]	COMIREX NO :	[]
TENSHHAHO SSM GARRISON SUPPORT AREA		CH 391340N 1220321E	
WAC NO :	[]	NPIC NO :	- 25-B2
IDHS CODE :	[]	COMIREX NO :	[]

A SUMMARY OF MODIFICATIONS/CONSTRUCTION AND A CHRONOLOGICAL ACCOUNT OF GROUND SUPPORT EQUIPMENT FOR THREE SSM FACILITIES AT TENG-SHA-HO ARE INCLUDED IN THIS REPORT. PAR 75-597 IS REFERENCED.*

AF PAR 584-79 11 MAY 79 [] SEC CLASS: 13 MSN: 0003P ACCN: 5087584

LYAKI PHASED-ARRAY RADAR FACILITY		UR 405208N 0474913E	
WAC NO :	[]	NPIC NO :	- 156
IDHS CODE :	[]	COMIREX NO :	[]
OLENEGORSK HEN HOUSE ABM RADAR FACILITY		UR 680650N 0335434E	
WAC NO :	[]	NPIC NO :	- 18-N
IDHS CODE :	[]	COMIREX NO :	[]
PECHORA PHASED-ARRAY RADAR FACILITY		UR 651238N 0571722E	
WAC NO :	[]	NPIC NO :	- 29-A
IDHS CODE :	[]	COMIREX NO :	[]
SARY SHAGAN MTC PHASED-ARRAY RADAR FAC NORTH		UR 463600N 0743000E	
WAC NO :	[]	NPIC NO :	- 60-A
IDHS CODE :	[]	COMIREX NO :	[]
SARY SHAGAN MTC R+D RADAR FACILITY 1		UR 460010N 0733859E	
WAC NO :	[]	NPIC NO :	- 2-C
IDHS CODE :	[]	COMIREX NO :	[]
ELECTRONICS, PHASED-ARRAY RADAR FACILITIES		UR	
WAC NO :	[]	NPIC NO :	-
IDHS CODE :	[]	COMIREX NO :	[]

1484
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF PAR 576-79 26 APR 79 [] SEC CLASS: 13 MSN: 0004P ACCN: S087586 25X1

IRKUTSK RADCOM RECEIVER STATION NNE BUNKER	UR 522328N 1042259E
WAC NO : []	BE/OBJ NO: [] NPIC NO : - 4-C
IDHS CODE: []	EPF CAT : 25D COMIREX NO: []
IRKUTSK COMSAT STATION NORTH	UR 522343N 1042240E
WAC NO : []	BE/OBJ NO: [] NPIC NO : - 4-C1
IDHS CODE: []	EPF CAT : 25C COMIREX NO: []
IRKUTSK COMSAT STATION NNE	UR 522332N 1042219E
WAC NO : []	BE/OBJ NO: [] NPIC NO : - 4-V1
IDHS CODE: []	EPF CAT : 25C COMIREX NO: []

25X1
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25X1
25X1
25X1
25X1

ANALYSIS OF ANTENNAS AT IRKUTSK RADCOM RECEIVER STATION NORTH NORTHEAST BUNKERED, IRKUTSK COMSAT STATION NORTH, AND IRKUTSK COMSAT STATION NNE IS GIVEN. ALL PERTINENT KEYHOLE IMAGERY DATING FROM JUNE 1975-APRIL 1979 WAS USED.
 PARAGRAPH 3.A. SUPERSEDES PAR 75-638, PARAGRAPH 3.A. PARAGRAPH 3.B. AND C. SUPERSEDES PAR 78-535 PARAGRAPHS 3.B. (12) AND (11) RESPECTIVELY.*

AF ENDR C6526-79 30 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087587 25X1

MOSKVA MISSILE/SPACE DEV CTR ISAYEV DSGN BUR	UR 555517N 0374805E
WAC NO : []	BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: []	EPF CAT : 40E COMIREX NO: []
MOSKVA MISSILE/SPACE DEV CTR ISAYEV DSGN BUR	UR 555517N 0374805E
WAC NO : []	BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: []	EPF CAT : 40H COMIREX NO: []

25X1
25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-579.*

AF ENDR C4513-79 01 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087588 25X1

SHUANGCHENG TZU MTC ICBM SITE B1/2 SERVICE TWR	CH 411828N 1001854E
WAC NO : []	BE/OBJ NO: [] NPIC NO : - 1-N
IDHS CODE: []	EPF CAT : 40A COMIREX NO: []

25X1
25X1

1485
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

THIS DRAWING SUPERSEDES DRAWING 74C4528/1 AND SUPPLEMENTS PAR'S 71-597, 72-534, 73-556, 74-697, 77-634 AND 79-535.*

AF ENDR C4517-1-77 04 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087589 25X1

SHUANGCHENG TUC ICBM SITE B1/2 SERVICE TWR CH 411828N 1001854E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 1-N
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1

THIS DRAWING SUPERSEDES DRAWING 74B4525/1. IT SUPPLEMENTS PAR'S 71-597, 72-534, 73-556, 74-697, 77-634, AND 79-535.*

AF ENDR C4507-4-73 01 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087590 25X1

SHUANGCHENG TUC ICBM SITE B1/2 LNCH STAND CH 411828N 1001854E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 1-N
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-634, 79-535, 73-556, 72-534, 71-597, AND 74-697 AND SUPERCEDES DRAWING 71B4532.*

AF ENDR C6504-3-76 08 MAY 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087591 25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155 UR 554846N 0373034E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 97-B1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

THIS DRAWING SUPERSEDES DRAWING 70C6581 AND SUPPLEMENTS PARS 76-517 AND 79-587.*

AF ENDR D6505-2-70 30 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087592 25X1

MOSKVA MISSILE + SPACE DEV CTR MISSILE PLT 88 UR 555517N 0374805E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
MOSKVA MISSILE + SPACE DEV CTR MISSILE PLT 88 UR 555517N 0374805E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X1
25X1
25X1
25X1

THIS DRAWING SUPERSEDES A PORTION OF DRAWING 65C6524 AND SUPPLEMENTS PAR 79-564.*

25X1

1486
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR C6527-79 04 MAY 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087595 25X1

LASA SSM/SPACE TRACKING FACILITY

WAC NO : [] BE/OBJ NO: [] CH 293855N 0910516E
IUHS CODE: [] EPF CAT : 25C NPIC NO : - 2-02
COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-580.*

AF ENDR E6531-1-77 20 APR 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087596 25X1

SHUANGCHENG TZU MTC ICBM SITE B1/2

WAC NO : [] BE/OBJ NO: [] CH 411828N 1001854E
IUHS CODE: [] EPF CAT : 40A NPIC NO : - 1-N
COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 71-597, 72-534, 73-556, 74-697, 77-634, AND 79-535 AND SUPERSEDES DRAWING 73D6525/1.*

AF ENDR D6523-79 04 MAY 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087597 25X1

MISSILES, ICBM TYPE 3F SILO GROUP TRENCHES

WAC NO : [] BE/OBJ NO: [] UR
IUHS CODE: [] EPF CAT : 40A NPIC NO : -
COMIREX NO: []

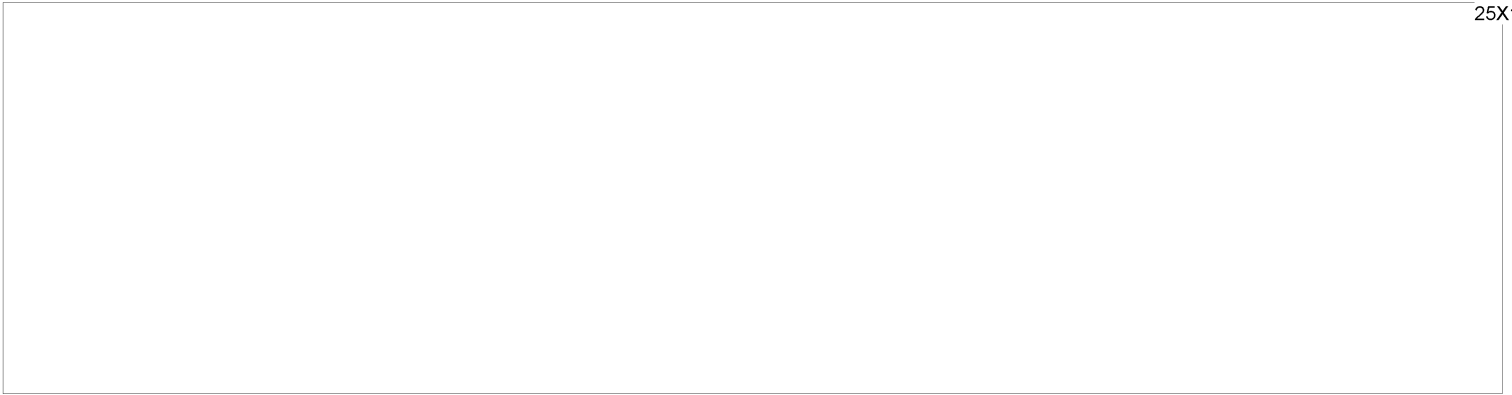
25X1

1487
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1



25X1

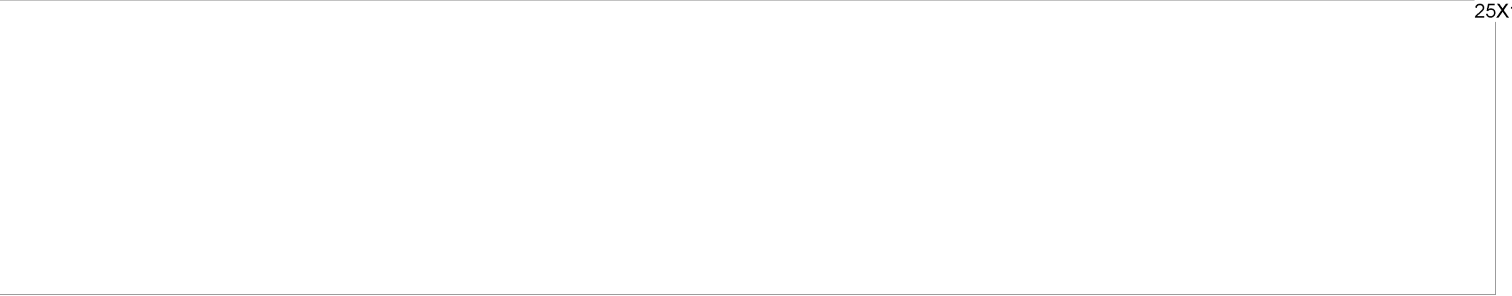
AF ENDR C6503-3-76 14 MAY 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087602 25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115 UR 554817N 0373126E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 46-C1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

THIS DRAWING SUPERSEDES DRAWING 70C6577. IT UPDATES PARS 76-516 AND 79-588.*

25X1



1488
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

[Large Redacted Block]

25X1

AF ENDR A3002-79 18 APR 79 SEC CLASS: 07 MSN: 0001P ACCN: S087608

AIRCRAFT: FANTAN A F-9 EXTERIOR FUEL TANK
WAC NO :
IDHS CODE: BE/OBJ NO: EPF CAT : 05D

CH
NPIC NO : -
COMIREX NO:

DIA IIM 5B1-72515-79 21 JUN 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0013P

ACCN: S087609

25X1

VOLKA ARMY BARRACKS ALI HEAVY AA DIVISION
WAC NO : [Redacted]
IDHS CODE: [Redacted] BE/OBJ NO: [Redacted] EPF CAT : 35A

UR 524756N 0253857E
NPIC NO : - 198
COMIREX NO: [Redacted]

25X1
25X1

[Large Redacted Block]

25X1

DIA IIM 5B2-72453-79 26 JUN 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0010P

ACCN: S087612

25X1

1489
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

GIURGIU PORT COMPLEX

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 75I

RO 435318N 0255839E
NPIC NO : - 74-B4
COMIREX NO: []

25X1
25X1

25X1

DIA IIM 5B3-72566-79 26 JUN 79 [] SEC CLASS: 14 MSN: [] 0002P

ACCN: S08761

25X1

MOLODEZHNAJA AIRFIELD SEARCH

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 05A

AY 674000S 0455120E
NPIC NO : - 1
COMIREX NO: []

25X1
25X1

25X1

DIA IIM 5B1-72561-79 26 JUN 79 [] SEC CLASS: 14B MSN: [] 0004P

ACCN: S08761

25X1

SHUMEN AMMUNITION STORAGE FACILITY 515

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35F

BU 431704N 0265653E
NPIC NO : - 37-A4
COMIREX NO:

25X1

DIA IIM 5B1-72529-79 27 JUN 79 [] SEC CLASS: 14B MSN: [] 0003P

ACCN: S08761

25X1

RAZLOG AMMUNITION STORAGE FACILITY

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35F

BU 415330N 0232710E
NPIC NO : -
COMIREX NO:

25X1

NPIC MEMO [] 05 JUL 79 [] SEC CLASS: 14B MSN: [] 0002P

ACCN: S08761

25X1

ILLARIUNOVO RADIO RELAY STATION SE

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 25D

UR 482115N 0352150E
NPIC NO : - 7-E1
COMIREX NO:

25X1

GOLUBOVKA RADIO RELAY STATION

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 25D

UR 485255N 0351935E
NPIC NO : - 29-A
COMIREX NO: []

25X1
25X1

1490

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

NOVOMOSKOVSK RADIO RELAY STATION

WAC NO : []

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 483800N 0351500E

NPIC NO : - 29-C1

COMIREX NO: []

25X1
25X1

BULAKHOVKA RADIO RELAY STATION

WAC NO : []

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 483600N 0353900E

NPIC NO : - 161

COMIREX NO:

25X1

THIS MEMO DESCRIBES THE NUMBER, TYPE, AND ORIENTATION OF ANTENNAS AT RADIO RELAY STATIONS IN THE PAVLOGRAD AREA. IT ALSO SEARCHES FOR A NEW RADIO RELAY STATION IN THE BULAKHOVKA AREA. IMAGERY USED WAS [] DATING FROM MARCH-MAY 1979.*

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

DIA IIM 5b1-72547-79 22 JUN 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0005P ACCN: S0876425X1

ORSHA MILITARY SUPPLY DEPOT D01 UR 543115N 0302317E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 67-F
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO: [Redacted]

25X1
25X1

NPIC MEMO [Redacted] 02 JUL 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0002P ACCN: S0876425X1

1498
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

SOZONOVO RADIO RELAY STATION

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 570856N 0661643E
NPIC NO : - 31
COMIREX NO:

25X1

BOGANDINSKIY RADIO RELAY STATION

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 565320N 0655400E
NPIC NO : - 106
COMIREX NO:

25X1

ZAVODOUSPENSKOYE RADIO RELAY STATION

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 565200N 0650120E
NPIC NO : - 91
COMIREX NO:

25X1

KOMMUNAR RADIO RELAY STATION

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 563435N 0653030E
NPIC NO : - 99
COMIREX NO:

25X1

TYUMEN RADIO RELAY STATION NW TOWER SEARCH

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 571320N 0652955E
NPIC NO : - 28-K
COMIREX NO:

25X1

THIS MEMO GIVES THE NUMBER, TYPE AND ORIENTATION OF RADIO RELAY ANTENNAS AT SOZONOVO, BOGANDINSKIY, ZAVODOUSPENSKOYE, AND KOMMUNAR RADIO RELAY STATIONS. [] OF THE TYUMEN AREA WAS USED. NO RADIO RELAY STATIONS WERE FOUND WITHIN A 5 NAUTICAL MILE RADIUS OF TUGULYM POSSIBLE RADREL STATION AND TYUMEN RADREL STATION NW.*

25X1



25X1

DIA IIM 581-72577-79 02 JUL 79

SEC CLASS: 14B MSN: []

0001P

ACCN: 5087652 25X1:5X1

SZCZECIN PETROLEUM PRODUCTS STORAGE

PL 533330N 0143310E

1499
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



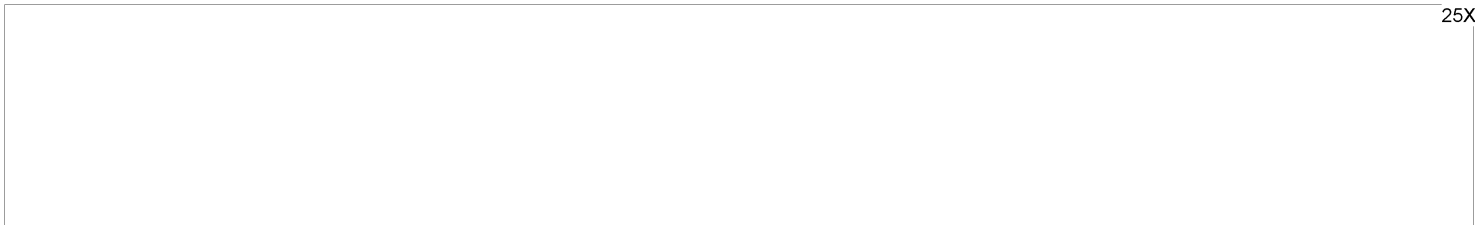
25X1
25X1

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 80A

NPIC NO : - 142-A5
COMIREX NO:

25X1



25X1

NPIC IIR IIR026-79 14 JUN 79 Z20008-79 SEC CLASS: 05B MSN: 0003P ACCN: S087655

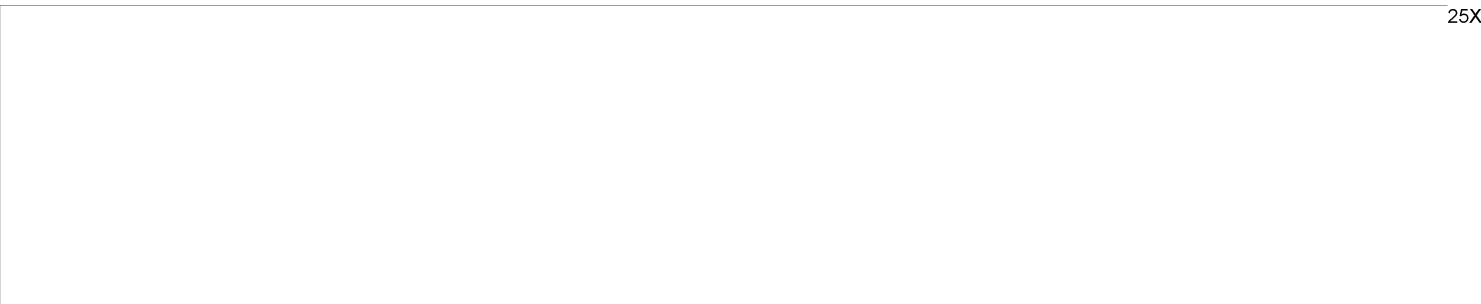
TAPIOSZENTMARTON AIRFIELD DUMMY FISHBED		HU 471835N 0194640E	
WAC NO :		BE/OBJ NO:	NPIC NO : - 112
IDHS CODE:		EPF CAT : 05A	COMIREX NO:
TAPIOSZENTMARTON AIRFIELD DUMMY FISHBED		HU 471835N 0194640E	
WAC NO :		BE/OBJ NO:	NPIC NO : - 112
IDHS CODE:		EPF CAT : 10I	COMIREX NO:

25X1

25X1

EIGHT INFLATABLE DUMMY FISHBED (MIG-21) AIRCRAFT WERE OBSERVED AT TAPIOSZENTMARTON AIRFIELD, HUNGARY, ON IMAGERY OF THE DUMMY FISHBED HAS A FUSELAGE LENGTH OF 13 METERS AND A WINGSPAN OF 7 METERS. THE DIMENSIONS ARE APPROXIMATELY THE SAME AS THOSE FOR THE FISHBED AIRCRAFT; HOWEVER, NO COCKPIT WAS DISCERNIBLE. SHIPPING CRATES ON THE GROUND BEHIND THE DUMMIES WERE 4 BY 3 METERS.

25X1



25X1

1500
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IIR IIR031-79 02 JUL 79 SEC CLASS: 14B MSN: 0004P ACCN: S08765

EMBA MTC SA-X-11 FIELD EXERCISE IDENTIFIED UR 483800N 0580300E
WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

ON THE FIRST OBSERVATION WAS MADE OF A SURFACE-TO-AIR MISSILE (SAM) EXERCISE INVOLVING THE SA-X-11 SYSTEM AT EMBA MISSILE TEST CENTER (MTC), USSR. SA-X-11 EXERCISES WERE SUBSEQUENTLY OBSERVED ON IN ADDITION, THE FIRST OBSERVATION OF A MIXED SA-6 AND SA-X-11 EQUIPMENT EXERCISE WAS MADE ON IMAGERY. ALL OF THESE EXERCISES TOOK PLACE APPROXIMATELY 1,500 METERS APART IN AN AREA OFTEN USED FOR SAM TRAINING ADJACENT TO EMBA MTC OPERATIONS SUPPORT AREA.

25X1

25X1

25X1

NPIC IIR IIR032-79 02 JUL 79 Z20010-79 SEC CLASS: 056 MSN: 0004P ACCN: S087659

MILITARY, 5TH ARMY REALIGNMENT FAR EAST MD UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

DURING THE PERIOD 5 MAY TO 14 JUNE 1979, A FORCE REALIGNMENT WAS OBSERVED WITHIN THE SOVIET 5TH ARMY IN THE FAR EAST MILITARY DISTRICT, USSR. THIS REALIGNMENT RESULTED IN THE FOLLOWING: THE FORWARD DEPLOYMENT OF A MAJOR COMBAT MANEUVER UNIT OF THE SMOLYANINOVO DIVISION TO AN INSTALLATION 10 NAUTICAL MILES (NM) FROM THE SINO-SOVIET BORDER; A CONSOLIDATION OF ARTILLERY, ROCKET, AND CHEMICAL UNITS WITH THE COMBAT MANEUVER UNITS OF THE SERGEYEVKA DIVISION; AND THE CONSOLIDATION OF ALL ELEMENTS OF A SECOND-GENERATION (MOBILIZATION) DIVISION AT SHKOTOVO ARMY BARRACKS AL-1.

NPIC B1IR RCAU9-0014-79 JUN 79 SEC CLASS: 14A MSN: 0011P ACCN: S0876625X1

LENINGRAD SOLID MOTOR TEST FACILITY 3 UR 601530N 0304441E
WAC NO : BE/OBJ NO: NPIC NO : - 42-T1
IDHS CODE: EPF CAT : 40E COMIREX NO:
LENINGRAD SOLID MOTOR TEST FACILITY 2 UR 601250N 0304218E
WAC NO : BE/OBJ NO: NPIC NO : - 42-T
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

25X1

25X1

THIS REPORT DESCRIBES ACTIVITY OBSERVED AT LENINGRAD SOLID MOTOR TEST FACILITIES 2 AND 3. THE CURRENT REPORTING PERIODS FOR TEST FACILITIES 2 AND 3 ARE 19 DECEMBER 1977 THROUGH 19 MARCH 1979 AND 21 JANUARY 1978 THROUGH 19 MARCH 1979, THE INFORMATION CUTOFF DATE, RESPECTIVELY. THIS REPORT ALSO UPDATES THE RELEVANT PORTIONS, DESCRIBING THESE FACILITIES, OF NPIC REPORT BETWEEN AUGUST 1974 AND MID-1976, TEST POSITIONS 2, 3, AND 4 AT TEST FACILITY 2 WERE DISMANTLED AND

25X1

1501
TOP SECRET CHESS

25X1

25X1

TOP SECRET CHESS RUFF

25X1

REPLACED BY TEST POSITION 6. DURING THE CURRENT REPORTING PERIOD, ACTIVITY AT THE FACILITY WAS SEEN PRIMARILY AT TEST POSITION 6. SINCE ITS APPARENT COMPLETION IN 1976, THE TEST POSITION HAS UNDERGONE A NUMBER OF CHANGES WHICH MAY INDICATE DIFFERENT TEST PHASES OR PROGRAMS INVOLVING NEW TECHNOLOGIES.

A MODIFIED VERSION OF THE SS-N-12 MISSILE SYSTEM IS BEING TESTED AT TEST FACILITY 3. THIS FACILITY HAS ALSO BEEN INVOLVED IN THE TESTING OF A NEW AND/OR MODIFIED WEAPON SYSTEM. TESTING OF THE SA-N-1/SA-N-3 MISSILE SYSTEM HAS APPARENTLY ENDED. THIS REPORT CONTAINS A LOCATION MAP, A TABLE AND SEVEN PHOTOGRAPHS.

25X1

TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

DIA BIIR RDA11-0024-78 JUN 79 [] SEC CLASS: 14B MSN: [] 0006P

ACCN: S0876625X1

SARANSK MOTOR VEHICLE PLANT

WAC NO : [] BE/OBJ NO: [] UR 541227N 0451005E
IDHS CODE: [] EPF CAT : 85A NPIC NO : - 51-E
COMIREX NO: []

25X1
25X1

THIS REPORT SUPERSEDES DIA, RDA-11/0017/71, [] SARANSK MOTOR VEHICLE PLANT, SEPTEMBER 1970 (TOP SECRET RUFF), FORMERLY THE BASIC REPORT FOR THIS INSTALLATION.

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF SARANSK MOTOR VEHICLE PLANT, FOR THE PERIOD JUNE 1961 TO AUGUST 1978. THE INSTALLATION, WHICH CONTAINS 63 BUILDINGS AND ENCOMPASSES APPROXIMATELY 78 HECTARES, ASSEMBLES GAZ 93 (GAZ 51/63) TYPE AND GAZ 53 TYPE DUMP TRUCKS. SEVEN PRODUCTION BUILDINGS ACCOUNT FOR 141,068 OF THE 165,537 SQUARE METERS OF ROOF COVER. SIGNIFICANT EXPANSION DURING 1975-1977 HAS ADDED OVER 60,000 METERS OF ROOF COVER.

THIS REPORT INCLUDES A MAP, A LINE DRAWING, AN ANNOTATED PHOTOGRAPH, A FUNCTIONAL DATA TABLE, AND SOURCE MATERIAL REFERENCES.

A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

25X1

DIA BIIB BDA06-0001-78 MAY 79 [] SEC CLASS: 14D MSN: [] 0002P

ACCN: S0876625X1

SOVETSKAYA GAVAN NAVAL FACIL

WAC NO : [] BE/OBJ NO: [] UR 490200N 1401755E
IDHS CODE: [] EPF CAT : 75B NPIC NO : - 29-X1
COMIREX NO: []

25X1
25X1

SOVETSKAYA GAVAN NAVAL FACILITY BUKHTA SEVERNAYA IS LOCATED 3 NM NORTH OF THE CITY OF SOVETSKAYA GAVAN ON THE WESTERN SHORE OF BUKHTA (BAY) SEVERNAYA. THE FACILITY OCCUPIES APPROXIMATELY 4.4 HECTARES AND CONTAINS TWO FUNCTIONAL AREAS: BERTHING AND SUPPORT/ADMINISTRATION. THE FACILITY CONSISTS OF 12 BUILDINGS AND 3 PIERS. THE ROAD SERVED FACILITY IS AN OPERATING BASE FOR COASTAL DEFENSE FORCE SHIPS. THE NOB

1505
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

INCLUDES RIGA FRIGATE, T-43 FLEET MINESWEEPER, YURKA FLEET MINESWEEPER AND VANYA COASTAL MINESWEEPER CLASSES.

DIA BIIR KDA04-0001-78

JUN 79

[Redacted]

SEC CLASS: 14D

MSN: [Redacted]

0003P

ACCN: S08766

25X1

TAIYUAN/SHOUYANG SAM DEPOT

WAC NO : [Redacted]

BE/OBJ NO: [Redacted]

CH 375220N 1130904E

NPIC NO : - 30

25X1

ICHS CODE: [Redacted]

EPF CAT : 40C

COMIREX NO: [Redacted]

25X1

THIS REPORT IS A DETAILED, IMAGERY DERIVED ANALYSIS OF TAI YUAN/SHOU YANG SAM DEPOT, PRC. THIS INSTALLATION WAS PREVIOUSLY SHOU YANG AMMUNITION DEPOT AND WAS FIRST IDENTIFIED AS A SAM DEPOT IN JUNE OF 1971. THE IRREGULAR-SHAPED FACILITY ENCOMPASSES APPROXIMATELY 216 HECTARES CONSISTING OF A DEPOT AREA AND AN ADMINISTRATIVE/SUPPORT AREA.

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, TWO ANNOTATED PHOTOGRAPHS, AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES.

[Large Redacted Area]

25X1

DIA IIM

561-72600-79

10 JUL 79

[Redacted]

SEC CLASS: 14D

MSN: [Redacted]

0003P

ACCN: S087674

25X1

PERM ARMY BARRACKS AL2

UR 575931N 0561552E

1506

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1

DIA IIM 5b1-7261b-79 10 JUL 79 [] SEC CLASS: 14B MSN: [] 0005P

ACCN: S0876725X1

PERM MILITARY TRAINING AREA TA1 UR 580022N 0562500E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 16-Y
IDHS CODE: [] EPF CAT : 35B COMIREX NO: []

25X1
25X1

DIA IIM 5b1-7262b-79 10 JUL 79 [] SEC CLASS: 14B MSN: [] 0003P

ACCN: S0876725X1

PERM ORDNANCE DEPOT CENTRAL D01 UR 575930N 0561601E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 16-X
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

DIA IIM 5b1-72631-79 10 JUL 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: S0876725X1

BAYAN SUMA AMMUNITION STORAGE DEPOT LA1 MG 471430N 1072900E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 12-D
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

DIA IIM 5b1-7258b-79 10 JUL 79 [] SEC CLASS: 14 MSN: [] 0010P

ACCN: S0876725X1

BEREZOVKA ARMY BARRACKS AL1 ENGINEER BRIGADE UR 503411N 1275124E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 211
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

BEREZOVKA ARMY BARRACKS AL2 ENGINEER BRIGADE UR 503220N 1275010E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 87-A
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

25X1

1507
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC IIR IIR029-79 28 JUN 79 [] SEC CLASS: 14D MSN: [] 0004P ACCN: 5087693 25X1

SHENYANG AIRFRAME PLANT 112 FLOGGER MIG-23	CH 415208N 1232600E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 55-Q 25X1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: [] 25X1
CHENG TU AIRFRAME PLANT 132 FLOGGER SHPG CONTS	CH 304224N 1035744E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 29-U 25X1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: [] 25X1

A MIG-23 (FLOGGER) AIRCRAFT WAS FIRST OBSERVED IN THE PEOPLE'S REPUBLIC OF CHINA (PRC) AT SHENYANG (SHEN-YANG) AIRFRAME PLANT 112 ON [] THE AIRCRAFT WAS PARKED BESIDE A HSIAN A AT THE NORTH END OF THE RUNWAY. 25X1

THE PRESENCE OF A HIGH-PERFORMANCE, VARIABLE-GEOMETRY FIGHTER AT TWO OF THE MAIN FIGHTER/INTERCEPTOR PRODUCTION PLANTS IN THE PRC WILL ENABLE THE CHINESE TO EXPLOIT THE ADVANCED TECHNOLOGICAL DEVELOPMENTS OF THE FLOGGER. THIS TECHNOLOGY WILL ENHANCE THE DEVELOPMENT OF INDIGENOUSLY DESIGNED FIGHTER AIRCRAFT.

NPIC IIR IIR030-79 28 JUN 79 [] SEC CLASS: 14D MSN: [] 0003P ACCN: 5087694 25X1

SHENYANG AIRFRAME PLANT 112 HSIAN A	CH 415208N 1232600E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 55-Q 25X1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: [] 25X1

THREE HSIAN A WERE OBSERVED AT SHENYANG (SHEN-YANG) AIRFRAME PLANT 112, PEOPLE'S REPUBLIC OF CHINA (PRC), ON [] THIS IS THE FIRST TIME THAT MORE THAN ONE HSIAN A HAS BEEN OBSERVED AT PLANT 112. 25X1

25X1

1510
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1



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NPIC IIR IIR034-79 03 JUL 79 Z20011-79 SEC CLASS: 05 MSN: 0003P ACCN: S087696

BOULOGNE TANK ASSEMBLY PLANT

AR 3430005 0583400W

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 356

NPIC NO : - 3-F
COMIREX NO:

25X1

BOULOGNE TANK ASSEMBLY PLANT, THE PRODUCTION PLANT FOR THE FIRST INDIGENOUSLY PRODUCED TANK IN SOUTH AMERICA, WAS IDENTIFIED ON PHOTOGRAPHY OF [REDACTED] IN BUENOS AIRES, ARGENTINA. ACCORDING TO A DOD REPORT, THE TAM (MEDIUM ARGENTINE TANK) IS PRODUCED AT BOULOGNE TANK ASSEMBLY PLANT, AND A PORTABLE 120MM MORTAR, SELF-PROPELLED ARTILLERY, BRIDGING EQUIPMENT, AND TANK RESCUE VEHICLES WILL BE PRODUCED THERE.

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NPIC IIR IIR035-79 03 JUL 79 Z20012-79 SEC CLASS: 05 MSN: 0002P ACCN: S087697

SHILENDA ZAPU MILITARY CAMP AIRSTRIKE IDENT [REDACTED]

ZA 1226005 0253910E

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

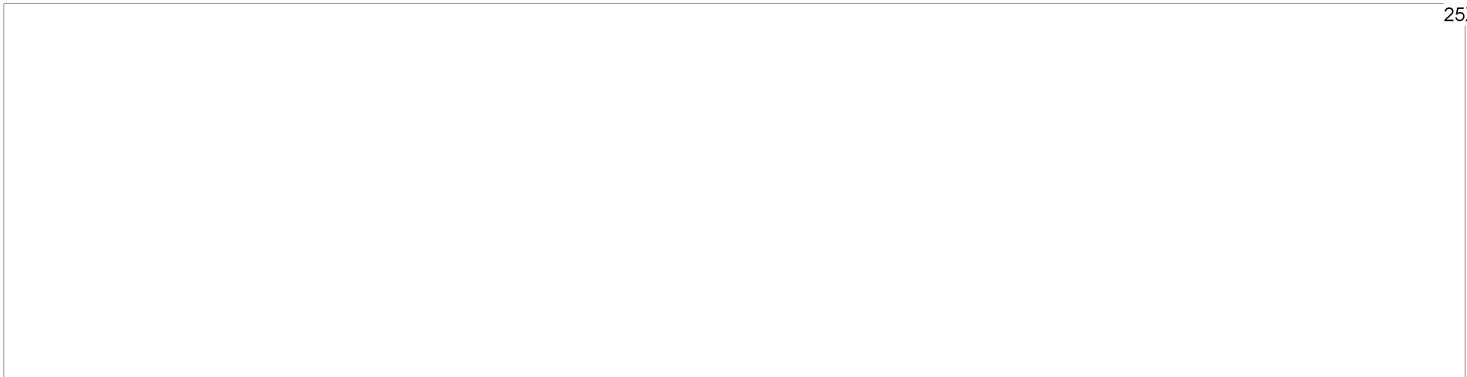
BE/OBJ NO: [REDACTED]
EPF CAT : 35

NPIC NO : - 12
COMIREX NO: [REDACTED]

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IMAGERY OF [REDACTED] PROVIDES CONFIRMATION OF A RHODESIAN AIRSTRIKE ON THE NEWLY IDENTIFIED SHILENDA ZAPU (ZIMBABWE AFRICAN PEOPLE'S UNION) CAMP COMPLEX IN NORTHERN ZAMBIA. NUMEROUS BOMB CRATERS WERE OBSERVED AT EACH OF THE THREE CAMPS THAT COMPRISE THE COMPLEX.

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NPIC PIR PIR05b-79 JUN 79 Z20009-79 SEC CLASS: 056 MSN: 0019P ACCN: 5087705

MANDALGOVI MILITARY INSTL	GRND FORCE EXER SOV	MG	454459N 1061443E
WAC NO :	BE/OBJ NO: [Redacted]	NPIC NO :	- 3-A
IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]	
MANDALGOVI MILITARY INSTL	GRND FORCE EXER SOV	MG	454459N 1061443E
WAC NO :	BE/OBJ NO: [Redacted]	NPIC NO :	- 3-A
IDHS CODE: [Redacted]	EPF CAT : 35B	COMIREX NO: [Redacted]	

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A MAJOR SOVIET FIELD TRAINING EXERCISE WAS OBSERVED NEAR MANDALGOVI, MONGOLIA, (45-44-59N 106-14-43) ON SATELLITE IMAGERY OF [Redacted] THIS EXERCISE, COVERING AN AREA OF APPROXIMATELY 1,600 SQUARE NAUTICAL MILES (NM), INVOLVED ELEMENTS OF AT LEAST FOUR COMBAT DIVISIONS AND IS THE LARGEST SOVIET GROUND FORCES EXERCISE EVER OBSERVED ON OVERHEAD IMAGERY. THE ENTIRE EXERCISE WAS NOT IMAGED, WHICH PRECLUDED A COMPLETE ANALYSIS OF ITS SIZE AND EXTENT. HOWEVER, MOST OF THE EXERCISE WAS PROBABLY OBSERVED.

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CIA INFR IS10099K-79 15 JUN 79 SEC CLASS: 13 MSN: 0005P ACCN: S087725X1

EMBA MTC EM-EL-06 RADAR UR 483800N 0580300E
WAC NO : BE/OBJ NO: NPIC NO : - 22
IDHS CODE: EPF CAT : 25C COMIREX NO:

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THIS MEMO DESCRIBES EM-EL-06 RADAR ACTIVITY AT EMBA MISSILE TEST CENTER. THE RADAR HAS BEEN IDENTIFIED AS THE PROBABLE EMITTER OF THE 1065Z SIGNAL AT EMBA MTC. THE RADAR IS A LARGE PLANAR ANTENNA WHICH IS MOUNTED ON A TRACKED, MOBILE CHASSIS. IT IS POSTULATED THAT THE EM-EL-6 IS AN EXPERIMENTAL MEDIUM TO HIGH ALTITUDE ACQUISITIONS RADAR FOR A SAM SYSTEM (OR SYSTEMS) UNDERGOING RESEARCH AND DEVELOPMENT AT EMBA MTC. AT PRESENT, THE SPECIFIC SAM SYSTEM WITH WHICH THE EM-EL-6 MAY BE ASSOCIATED IS UNKNOWN, HOWEVER, THERE ARE SEVERAL CORRELATIONS BETWEEN THE EM-EL-6 AND THE C1 CANISTER SYSTEM AT EMBA MTC.

CIA INFR IS10103K-79 14 JUN 79 SEC CLASS: 14 MSN: 0006P ACCN: S087725X1

INHOMIRIM EXPLOSIVES PLANT ESTRELA BR 223414S 0431131W
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35G COMIREX NO:
MARAMBAIA MILITARY PROVING GROUNDS BR 2246 S 04256 W
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35G COMIREX NO:
PITQUETE EXPLOSIVES PLANT VARGAS BR 223654S 0451237W
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35G COMIREX NO:

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THIS MEMORANDUM PRESENTS THE RESULTS OF A PHOTOGRAPHIC STUDY MADE TO DETERMINE IF THE BRAZILIAN GOVERNMENT HAS BUILT HIGH EXPLOSIVES TEST FACILITIES IN SUPPORT OF A NUCLEAR WEAPONS DEVELOPMENT EFFORT. THIS STUDY HAS BEEN CONFINED TO THOSE FACILITIES DIRECTLY CONTROLLED BY THE BRAZILIAN GOVERNMENT. THE STUDY DID NOT ADDRESS THE NUMEROUS CIVILIAN CONTROLLED EXPLOSIVE PLANTS, MANY OF WHICH ARE OPERATED BY US COMPANIES.

ON 28 DECEMBER 1976, SEVEN WAR MATERIEL FACTORIES BELONGING TO THE MINISTRY OF THE ARMY WERE

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INCORPORATED INTO THE ASSETS OF THE NEWLY ESTABLISHED WAR MATERIEL INDUSTRY OF BRAZIL-IMBEL. THE FACTORIES UNDER IMBEL ARE DIVIDED INTO THREE CATAGORIES-- CHEMICAL, METALLURGICAL, AND INDUSTRIAL. IN THIS STUDY OIA HAS EXAMINED IMBEL'S PITQUETE AND INHOMIRIM EXPLOSIVE PLANTS, BOTH PRODUCERS OF PROPELLANTS, GUN POWDER, EXPLOSIVES, AND PYROTECHNICS FOR EVIDENCE OF HIGH EXPLOSIVES TEST FACILITIES. IN ADDITION, OIA ALSO EXAMINED THE MARAMBAIA PROVING GROUNDS, WHICH WAS SPECIFICALLY ESTABLISHED TO QUALITY TEST BRAZILIAN PRODUCED EXPLOSIVES AND MUNITIONS.

ANALYSIS OF PHOTOGRAPHY OF THE PILQUETE, INHOMIRIM, AND MARAMBAIA FACILITIES SHOWS NO EVIDENCE OF HIGH EXPLOSIVES TEST FACILITIES THAT COULD BE USED IN SUPPORT OF A NUCLEAR WEAPONS DEVELOPMENT PROGRAM.

AF	ENDR	E1009-79	11 MAY 79	SEC CLASS: 07	MSN:	0001P	ACCN: 5087728
		ELECTRONICS, BACK TRAP EW RADAR MODEL 2		UR			
		WAC NO :	BE/OBJ NO:	NPIC NO : -			
		IDHS CODE:	EPF CAT : 25A	COMIREX NO:			
AF	ENDR	E1008-79	11 MAY 79	SEC CLASS: 07	MSN:	0001P	ACCN: 5087729
		ELECTRONICS, BACK TRAP EW RADAR MODEL 1		UR			
		WAC NO :	BE/OBJ NO:	NPIC NO : -			
		IDHS CODE:	EPF CAT : 25A	COMIREX NO:			

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NPIC BRAD

[Redacted]

JUL 79

[Redacted]

SEC CLASS: 14B MSN:

0002P

ACCN: 5087738

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ENGELS AIRFIELD BISON B M-4 DISASSEMBLY

UR 512845N 0461250E

WAC NO :

[Redacted]

BE/OBJ NO:

[Redacted]

NPIC NO :

- 6

IDHS CODE:

[Redacted]

EPF CAT : 05A

COMIREX NO:

[Redacted]

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DISASSEMBLY OF TWO BISON HAS BEGUN SINCE

[Redacted]

AT ENGELS AIRFIELD.*

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CIA INFR IS10110K-79 JUL 79 SEC CLASS: 14E MSN: 0016P ACCN: 508774

SARY SHAGAN MTC R+D COMPLEX FAC A NORTH BLDG UR 455200N 0733100E
WAC NO : BE/OBJ NO: NPIC NO : - 38-A 25X1
IDHS CODE: EPF CAT : 40E COMIREX NO: 25X1

THIS REPORT PRESENTS DETAILED ENGINEERING AND STRUCTURAL DESIGN INFORMATION ON THE NORTH BUILDING OF FACILITY A, SARY SHAGAN R+D COMPLEX-- A COMPLEX BELIEVED TO BE INVOLVED IN AN AEROSPACE DEFENSE PROGRAM. THE INFORMATION IS DERIVED FROM A REVIEW OF ALL AVAILABLE PHOTOGRAPHY OBTAINED SINCE 1973, WHEN CONSTRUCTION OF THE BUILDING BEGAN. AN ANALYSIS OF THE PHOTOGRAPHY WAS CONDUCTED TO DETERMINE THE PURPOSE OF THIS UNIQUE STRUCTURE AND ITS RELATIONSHIP TO THE REST OF FACILITY A. THE STUDY IS PART OF A CONTINUING IMAGERY ANALYSIS CONTRIBUTION TO THE INTERDISCIPLINARY ASSESSMENT OF SOVIET DIRECTED-ENERGY WEAPONS PROGRAMS BY OFFICES OF THE NATIONAL FOREIGN ASSESSMENT CENTER (NFAC). THE JUDGEMENTS PRESENTED ARE PRELIMINARY AND MAY BE REFINED OR ALTERED AS MORE INFORMATION BECOMES AVAILABLE AND MORE COMPREHENSIVELY BASED ANALYSIS BY OTHER NFAC OFFICES IS COMPLETED. THE KEY FINDINGS OF THIS STUDY ARE THAT: THE NORTH BUILDING IS A NONSTANDARD STRUCTURE--BOTH IN DESIGN AND IN STRUCTURAL FEATURES. IT WAS CLEARLY DESIGNED AND BUILT TO WITHSTAND FORCES AND LOADS FAR GREATER THAN THOSE ENCOUNTERED IN INDUSTRIAL BUILDINGS OF STANDARD SOVIET DESIGN.

IT IS LIKELY THAT THE REASON FOR THE UNUSUAL CONSTRUCTION TECHNIQUE USED IN THIS BUILDING IS THAT EXPLOSIVE DEVICES, POSSIBLY EXPLOSIVELY DRIVEN ELECTRICAL GENERATORS, WILL BE DETONATED NEAR THE BUILDING ADJACENT TO MASSIVE CONCRETE BLAST WALLS. THESE DEVICES PRESUMABLY WOULD POWER SOME TYPE OF SYSTEM INSIDE THE BUILDING.

IF, AS THE PHOTOGRAPHIC EVIDENCE SUGGESTS, THE EXPLOSIVE DEVICES ARE FOR POWERING A SYSTEM INSIDE THE BUILDING, A PLAUSIBLE SYSTEM WOULD BE ONE THAT GENERATES A BEAM OF ELECTROMAGNETIC ENERGY AT OPTICAL FREQUENCIES. THIS BEAM WOULD BE TRANSPORTED DOWN AN EARTH-COVERED CONDUIT WHICH CONNECTS THE NORTH AND SOUTH BUILDINGS AND THEN PROPAGATED BY THE LARGE-APERTURE BEAM DIRECTOR LOCATED IN THE SOUTH BUILDING. GIVEN THE SCARCITY OF HARD EVIDENCE, HOWEVER, OTHER EXPLANATIONS FOR WHAT OIA SEES ON THE PHOTOGRAPHY ARE, OF COURSE, POSSIBLE.

NPIC PIR PIR057-79 JUL 79 SEC CLASS: 14A MSN: 0014P ACCN: 508775

ADEN PORT FACILS NAVAL SHIPS/ARMS SHPMTS SOV YS 124715N 0450027E
WAC NO : BE/OBJ NO: NPIC NO : - 15 25X1
IDHS CODE: EPF CAT : 75I COMIREX NO: 25X1

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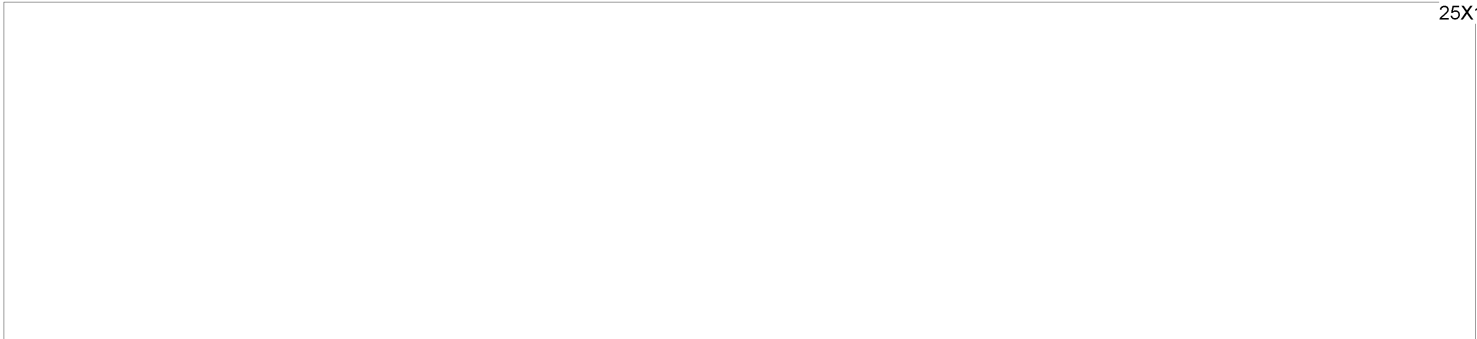


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ADEN PORT FACILS NAVAL SHIPS/ARMS SHPMTS SOV YS 124715N 0450027E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 15
IUHS CODE: [] EPF CAT : 35 COMIREX NO: []

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THIS REPORT IS A SUMMARY OF SOVIET NAVAL SHIPS AND ARMS SHIPMENTS OBSERVED AT ADEN PORT FACILITIES, SOUTH YEMEN, FROM APRIL 1978 THROUGH APRIL 1979. THE REPORT CONTAINS A LOCATION MAP, SIX ANNOTATED PHOTOGRAPHS, AND TWO TABLES.



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CIA IRP IS10089K-79 JUN 79 [] SEC CLASS: 14E MSN: 0013P ACCN: S0877525X1

MISSILES, SS-20 SLIDING-ROOF BUILDINGS UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 40B COMIREX NO: []

THE INTELLIGENCE COMMUNITY PROJECTS THAT THE USSR WILL DEPLOY 250-300 SS-20 TRANSPORTER-ERECTOR-LAUNCHERS (TELS) HOUSED IN SLIDING-ROOF BUILDINGS (SRBS); EACH SRB HOUSES ONE TEL. ANALYSIS OF IMAGERY INDICATES THAT IF THE SOVIETS CONTINUE PRESENT RATES OF CONSTRUCTION, THEY WILL COMPLETE 270 SRBS -- ABOUT THE MIDPOINT OF THE COMMUNITY PROJECTION AND ENOUGH FOR A 30-BASE SS-20 IRBM FORCE -- BY THE FALL OF 1981. (APPROXIMATELY THREE ADDITIONAL YEARS ARE REQUIRED TO FINISH ALL CONSTRUCTION AT A BASE AFTER COMPLETION OF THE SRBS.) THE ESTIMATED COMPLETION DATE IS BASED ON THE CURRENT ANNUAL PRODUCTION RATE OF ABOUT 54 SRBS AT THE BRYANSK GUIDED MISSILE SUPPORT EQUIPMENT PLANT II AND ON THE CURRENT SUPPORT BASE CONSTRUCTION RATE OF SIX NEW STARTS PER YEAR.

CIA IRP IS10094K-79 JUN 79 [] SEC CLASS: 25E MSN: 0023P ACCN: S0877525X1

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SARY SHAGAN MTC	COMPLEX B	ABM SILOS U/C	UR	460106N 0722804E
WAC NO :		BE/OBJ NO:	NPIC NO :	- 50-B
IDHS CODE:		EPF CAT :	COMIREX NO:	
SARY SHAGAN MTC	COMPLEX F	ABM SILOS U/C	UR	462629N 0725108E
WAC NO :		BE/OBJ NO:	NPIC NO :	- 49-B6
IDHS CODE:		EPF CAT :	COMIREX NO:	

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AT THE SARY SHAGAN MISSILE TEST CENTER, CONSTRUCTION OF FIVE NEW ANTIBALLISTIC- MISSILE LAUNCH SILOS HAS RECENTLY BEEN COMPLETED AND AT LEAST ONE OF THE SILOS MAY BE OPERATIONAL. TWO OF THESE FIVE SILOS ARE AT LAUNCH COMPLEX B AND THREE ARE LOCATED AT COMPLEX F -- TWO AT SITE 3 AND ONE AT SITE 4E. THE TWO SILOS AT LAUNCH COMPLEX B AND THE TWO SILOS AT LAUNCH COMPLEX F, SITE 3 WERE ALL CONSTRUCTED IN FOUR DISTINCT STAGES THAT REQUIRED A TOTAL OF ABOUT TWO AND ONE-HALF YEARS TO COMPLETE. THESE STAGES WERE: SILO CORING; SILO LINER INSTALLATION; HEADWORKS INSTALLATION; AND DOOR INSTALLATION. CONSTRUCTION OF ADDITIONAL FACILITIES, SUCH AS THE CONTROL BUILDING, CABLING, AND INSTRUMENTATION ARRAYS, BEGAN LATER AND CONTINUED AFTER COMPLETION OF THE SILOS THEMSELVES.

THE ONE SILO AT COMPLEX F, SITE 4E, IS SIGNIFICANTLY DIFFERENT IN APPEARANCE FROM THE OTHER FOUR -- IT HAS NO HEADWORKS AND WILL PROBABLY NOT HAVE A LOOP APPROACH ROAD NOR INSTRUMENTATION. THE CONSTRUCTION STAGES OF THE SITE 4E SILO ALSO DIFFERED. CONSTRUCTION BEGAN IN 1971 BUT WAS ABANDONED AND NOT RESTARTED UNTIL THE SUMMER OF 1977. THE SILO WAS FINISHED ABOUT 18 MONTHS LATER.

BASED UPON A COMBINATION OF THE SILO SIZES AND CONFIGURATIONS, THEIR LOCATIONS, AND THE ASSOCIATED ELECTRONICS AND SUPPORT FACILITIES, IT APPEARS THAT THE ABM-1B GALOSH MISSILE WILL BE USED IN THE COMPLEX B SILOS AND THAT THE SH-04 OR THE SH-08 MISSILE WILL BE USED IN THE TWO SILOS AT SITE 3, LAUNCH COMPLEX F. MEASUREMENT OF THE DEPTH OF THE ONE SILO AT SITE 4E OF COMPLEX F HAS NOT BEEN POSSIBLE AND, THEREFORE, IT COULD NOT BE DETERMINED WHAT MISSILE IT COULD ACCOMMODATE.

CIA BIIR RCS13-0008-79 JUN 79 [] SEC CLASS: 14E MSN: 0014P ACCN: S08775425X1

INDUSTRY, SODA ASH PRODUCTION FACILITIES	CH
WAC NO :	NPIC NO : -
IDHS CODE:	COMIREX NO:
	EPF CAT : 30F

SODA ASH (SODIUM CARBONATE) IS AN INDISPENSABLE FEED MATERIAL FOR A WIDE VARIETY OF INDUSTRIES, INCLUDING STEEL, GLASS, TEXTILE, AND PAPER PRODUCTION AS WELL AS NONFERROUS METALS REDUCTION AND PETROLEUM REFINING. NINE CONFIRMED, ONE PROBABLE, AND SIX POSSIBLE SODA ASH PLANTS AND THREE AREAS WHERE NATURALLY OCCURRING SODA ASH IS EXTRACTED HAVE BEEN IDENTIFIED IN CHINA. THE PRODUCTION CAPACITIES OF THE SODA ASH FACILITIES COULD NOT BE DETERMINED FROM PHOTOGRAPHY, BUT CHINESE INDUSTRY REPORTS INDICATE A PRODUCTION LEVEL OF ALMOST 3 MILLION METRIC TONS WAS EXPECTED FOR 1978. ALL THE CHINESE PLANTS APPEAR TO USE THE SOLVAY PROCESS, WHICH PRODUCES SODA ASH BY TREATING A SALT WATER SOLUTION FIRST WITH AMMONIA AND THEN WITH CARBON DIOXIDE. THE NATURALLY OCCURRING SODA ASH IS SEPARATED FROM ALKALINE BRINES BY A FRACTIONAL CRYSTALLIZATION PROCESS.

THE FIRST CHINESE SODA ASH PLANT WAS CONSTRUCTED IN 1918. THE INDUSTRY DEVELOPED SLOWLY, WITH ONLY THREE OF THE 16 PLANTS BEING CONSTRUCTED PRIOR TO THE 1950S. SINCE THAT TIME, THE GROWING DEMAND FOR SODA ASH HAS PROMPTED THE CONSTRUCTION OF SEVEN CONFIRMED, ONE PROBABLE, AND FIVE POSSIBLE PLANTS AND THE

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DEVELOPMENT OF THREE AREAS FOR EXTRACTION OF NATURALLY OCCURRING SODA ASH.

CIA INP IS10082k-79 JUN 79 [] SEC CLASS: 14E MSN: 0012P ACCN: S087756 25X1

SEVERODVINSK SHIPYARD CONST HALL/LAUNCH BASIN UR 643438N 0394832E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-A
IUHS CODE: [] EPF CAT : 75E COMIREX NO: []

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BY JANUARY 1979, THE SOVIETS WERE CLOSE TO COMPLETING WHAT WILL PROBABLY BE A NEW, LARGE SUBMARINE CONSTRUCTION COMPLEX AT SEVERODVINSK SHIPYARD 402. RECENT WORK HAS FOCUSED ON THE CONSTRUCTION OF A NEW LAUNCH BASIN--ACTUALLY AN EXTENSION OF THE DEEP PORTION OF THE LAUNCH BASIN SERVING CONSTRUCTION HALL 1--AND THE INSTALLATION OF LAUNCH RAILS IN FRONT OF THE NEW CONSTRUCTION HALL (HALL 3). ANALYSIS OF IMAGERY HAS REVEALED THE FOLLOWING CONCERNING THE ARRANGEMENT OF BUILDING WAYS WITHIN CONSTRUCTION HALL 3, AND THE METHOD BY WHICH OIA EXPECTS VESSELS TO BE LAUNCHED FROM HALL 3 INTO THE LAUNCH BASIN EXTENSION: CONSTRUCTION HALL 3 PROBABLY CONTAINS THREE BUILDING WAYS LOCATED INSIDE OF A FLOODABLE DOCK. TRACK ARRANGEMENTS SEEN AT THE FRONT OF HALL 3 INDICATE THE POSSIBILITY THAT TWO OF THE WAYS WILL BE USED FOR FINAL ASSEMBLY AND ONE WAY WILL BE USED TO TRANSFER SUBASSEMBLIES. THE LAUNCH BASIN EXTENSION IN FRONT OF CONSTRUCTION HALL 3 MEASURES 244 BY 140 METERS. THE DEEP BASIN PORTION OF THE EXTENSION, WHICH HAS BEEN EXCAVATED TO A DEPTH OF ABOUT [] BELOW THE LEVEL OF THE CONSTRUCTION DOCK FLOOR, MEASURES 180 BY ABOUT 140 METERS. NINE FREE-STANDING GUIDE PIERS HAVE BEEN ERECTED IN THE OLD DEEP PORTION OF THE BASIN AND OUTSIDE THE BASIN IN THE ESTUARY. GUIDE PIERS ARE USED TO CONTROL THE MOVEMENT OF LARGE TRANSFER DOCKS/LAUNCH PLATFORMS IN RESTRICTED AREAS, AND THEIR PRESENCE IN THE BASIN AT SEVERODVINSK INDICATES THAT VESSELS WILL BE LAUNCHED FROM HALL 3 ONTO A LAUNCH PLATFORM. BECAUSE THE DECK OF THE LAUNCH PLATFORM MUST FIT WITHIN THE 180-METER LENGTH OF THE DEEP PORTION OF THE BASIN EXTENSION, VESSELS LAUNCHED ONTO THE PLATFORM ARE NOT EXPECTED TO GREATLY EXCEED 180 METERS.

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OTHER, PROBABLY RELATED MODIFICATIONS INCLUDE THE FOLLOWING: LAUNCH TRACKS A AND B IN FRONT OF CONSTRUCTION HALL 1 ARE BEING LENGTHENED FROM 151 METERS 247 METERS. IT IS POSSIBLE THAT THE LAUNCH PLATFORM THAT WILL BE USED TO SUPPORT LAUNCHES FROM HALL 3 IS CURRENTLY UNDER CONSTRUCTION ON WAYS A AND B IN HALL 1, AND THAT THESE TRACKS ARE BEING LENGTHENED TO ACCOMMODATE ITS LAUNCH. THE SILL OF THE GATE LEADING INTO THE LAUNCH BASIN WAS EXPANDED; HOWEVER, THE DEPTH OF THE SILL WAS NOT CHANGED.

CIA IAMR ISMR005J-79 JUN 79 [] SEC CLASS: 25A MSN: 0014P ACCN: S087756 25X1

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RAMENSKOYE CAPSULE TUBE R+D CENTER TRANSP SYS UR 553555N 0381635E
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 85 COMIREX NO: []
MILITARY, GROUND FORCES LANCHOU MR CH
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 35E COMIREX NO: []
MILITARY, RIVER CROSSING EQUIPMENT NEW DPL CH

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WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 35E	COMIREX NO:	
INDUSTRY, ELECTRIC POWER GENERATION INCREASE			
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 30E	COMIREX NO:	

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NPIC PIR PIR055-79 JUL 79 SEC CLASS: 14A MSN: 0007P ACCN: S08775725X1

AIRFIELDS, REPAIR + IMPROVEMENT MAY 77-MAY 79		ET
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05A	COMIREX NO:

A HIGH LEVEL OF AIRFIELD REPAIR AND UPGRADING HAS BEEN OBSERVED THROUGHOUT ETHIOPIA SINCE JUST BEFORE THE BEGINNING OF THE ETHIOPIAN-SOMALI WAR IN JULY 1977. THIS ACTIVITY AT THE AIRFIELDS CAN BE DIRECTLY ATTRIBUTED TO SEVERAL FACTORS: DAMAGE FROM SABOTAGE, DELIVERIES OF SOPHISTICATED AIRCRAFT, AND THE CONTINUATION OF HOSTILITIES IN ERITREA AND THE OGADEN. THIRTEEN AIRFIELDS WHERE THIS REPAIR AND UPGRADING HAS TAKEN PLACE ARE DISCUSSED IN THIS REPORT - FIVE HAVE BEEN REPAIRED, AND THE OTHER EIGHT HAVE BEEN OR ARE BEING IMPROVED. A 14TH AIRFIELD HAS BEEN CONSTRUCTED AND IS ALSO DISCUSSED IN THIS REPORT. THE AIRFIELDS DISCUSSED ARE: CHEREN, MASSAWA, TESSENAI, ADI KEYIH, HUMERA AIRFIELD NORTH, MAKALE/ALULA ABA NEGA, ASSAU, ABA TENNA-DEJAZMATCH YILMA, JIJIGA, HARAR MEDA, DEGEHBUR, KABRIDAR, GODE, AND NEGHELLI.*

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TOP SECRET CHESS RUFF [Redacted]

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[Large Redacted Area]

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NPIC SR SR041-79 JUL 79 [Redacted] SEC CLASS: 14D MSN: 0006P ACCN: S08776 25X1

MILITARY, GROUND FORCES STATIC DEFENSE EXER UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 35B COMIREX NO:

A PROBABLE LARGE-SCALE TRAINING EXERCISE WAS OBSERVED ON [Redacted] 25X1
THIS ACTIVITY, THE FIRST OBSERVED INVOLVING TROOPS MANNING PORTIONS OF THE GROUND FORCE STATIC DEFENSIVE
LINE NEAR DAURIYA IN THE TRANSBAYKAL MILITARY DISTRICT, MAY HAVE BEEN RELATED TO THE LARGE-SCALE JOINT
FORCES EXERCISE CONDUCTED IN THE EASTERN SOVIET UNION AND MONGOLIA DURING MARCH.
THE ACTIVITY INVOLVED 11 BIVOUAC AREAS ALONG A 63-NAUTICAL MILE (NM) FRONT FROM LAKE ZUN TOREY TO AN
AREA EAST OF ZABAYKALSK.

DIA IIM 5B1-72643-79 18 JUL 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0002P ACCN: S08776 25X1

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TOP SECRET CHESS RUFF [Redacted]

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TOP SECRET CHESS RUFF

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NOVOSIBIRSK AIRCRAFT REPAIR BASE

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05F

UR 545632N 0824203E
NPIC NO : -
COMIREX NO:

25X1

DIA IIM 5B1-72642-79 18 JUL 79 [] SEC CLASS: 14 MSN: [] 0002P

ACCN: S087762 25X1

NOVOSIBIRSK AIRFIELD NORTH HELICOPTER RPR FAC

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05F

UR 550530N 0825409E
NPIC NO : - 7-A
COMIREX NO: []

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NOVOSIBIRSK AIRFIELD NORTH HELICOPTER RPR FAC

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05A

UR 550530N 0825409E
NPIC NO : - 7-A
COMIREX NO: []

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DIA IIM 5B1-72645-79 17 JUL 79 [] SEC CLASS: 14B MSN: [] 0001P

ACCN: S087764 25X1

BUY AMMUNITION STORAGE DEPOT 50

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35F

UR 582601N 0413241E
NPIC NO : - 7
COMIREX NO: []

25X1

25X1

DIA IIM 5B3-72651-79 16 JUL 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087765 25X1

CMEGLA AIRFIELD NW

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05A

UR 602835N 0330154E
NPIC NO : -
COMIREX NO:

25X1

25X1

1530
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

DIA IIM 5B3-72653-79 16 JUL 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0002P ACCN: S0877625X1

KOMSOMOLSKIY AIRFIELD UR 690840N 1724030E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 16 25X25X1

IDHS CODE: [Redacted] EPF CAT : 05A COMIREX NO: [Redacted]

[Redacted]

25X1

DIA IIM 5B3-72662-79 16 JUL 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0003P ACCN: S08777025X1

GATCHINA AIRFIELD UR 593630N 0301630E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 25X1

IDHS CODE: [Redacted] EPF CAT : 05A COMIREX NO: [Redacted]

DIA IIM 5B3-72652-79 16 JUL 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S0877725X1

RYBEZHNO AIRFIELD WEST UR 602012N 0325558E

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 25X1

IDHS CODE: [Redacted] EPF CAT : 05A COMIREX NO: [Redacted]

[Redacted]

25X1

DIA IIM 5B1-72638-79 11 JUL 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0004P ACCN: S0877725X1

1531
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-72635-79 11 JUL 79 SEC CLASS: 14 MSN: 0002P

ACCN: S087774 25X1

NARYAN MAR HELIPORT

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05

UR 674029N 0530853E
NPIC NO : - 4-C8
COMIREX NO:

25X1

25X1

25X1

NPIC MEMO 17 JUL 79 SEC CLASS: 13 MSN: 0002P

ACCN: S087777 25X1

PETROZAVODSK RADIO RELAY/TV/FM BDCST CENTER

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25B

UR 614630N 0341955E
NPIC NO : - 15-Q5
COMIREX NO:

25X1

PETROZAVODSK RADIO RELAY/TV/FM BDCST CENTER

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25D

UR 614630N 0341955E
NPIC NO : - 15-Q5
COMIREX NO:

25X1

PETROZAVODSK RADIO RELAY STATION WEST

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25D

UR 615340N 0334530E
NPIC NO : - 15-L1
COMIREX NO:

25X1

KONCHOZERO RADIO RELAY STATION

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25D

UR 620743N 0335952E
NPIC NO : - 40
COMIREX NO:

25X1

SPASSKAYA GUBA RADIO RELAY STATION WEST

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25D

UR 621300N 0333620E
NPIC NO : - 82
COMIREX NO:

25X1 25X1

1532

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

ILEM SELGA RADIO RELAY STATION UR 621750N 0343040E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 36
 IUHS CODE: [] EPF CAT : 25D COMIREX NO:
 KYAPPESELGA RADIO RELAY STATION UR 623930N 0341520E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 30
 IUHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1

25X1

THIS MEMO DESCRIBES THE NUMBER, TYPE AND ORIENTATION OF ANTENNAS AT RADIO-RELAY STATIONS IN THE PETROZAVODSK AREA. IMAGERY USED WAS []

25X1

NPIC MEMO [] 19 JUL 79 [] SEC CLASS: 14D MSN: [] 0002P

ACCN: S0877725X1

GALENKI ESV TRACKING/MOLNIYA FACILITY UR 440130N 1314545E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 9-C
 IUHS CODE: [] EPF CAT : 25C COMIREX NO:
 USINOVKA RADIO RELAY STATION EAST UR 435900N 1322125E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 99
 IUHS CODE: [] EPF CAT : 25D COMIREX NO:
 ARSENYEV TV BROADCASTING CENTER UR 440640N 1332045E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 44-C2
 IUHS CODE: [] EPF CAT : 25B COMIREX NO:
 OZERNOYE RADIO RELAY STATION UR 444500N 1333730E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 103
 IUHS CODE: [] EPF CAT : 25D COMIREX NO:
 LESOZAVODSK RADIO RELAY STATION UR 452730N 1332530E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 27-C4
 IUHS CODE: [] EPF CAT : 25D COMIREX NO:
 POKROVKA RADIO RELAY + RADCOM XMTR STATION UR 435700N 1314032E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 74-A1
 IUHS CODE: [] EPF CAT : 25D COMIREX NO:
 USSURIYSK TV RELAY STATION SEARCH UR 4348 N 13157 E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IUHS CODE: [] EPF CAT : 25B COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS MEMO PROVIDES A CURRENT DESCRIPTION OF RADIO-RELAY STATIONS IN THE VLADIVOSTOK AREA. IMAGERY USED WAS FROM []

25X1

DIA 11M 561-72674-79 18 JUL 79 [] SEC CLASS: 14 MSN: [] 0002P

ACCN: S0877725X1

SPASSK DALNIY ARMY BARRACKS AL4 UR 443540N 1325310E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47-A1
 IUHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA NBRG NDA07-5030-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087782

WUHSING MILITARY AREA 1

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35

CH 3052 N 12006 E

NPIC NO : -

COMIREX NO:

25X1

DIA NBRG NDA07-5031-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087783

WUHSING ARMY BARRACKS AL1 + HEADQUARTERS

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 305502N 1200357E

NPIC NO : - 56-C

COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5032-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087784

WUHSING ARMY BARRACKS AL3

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 305404N 1200210E

NPIC NO : - 56-D

COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5033-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087785

CHIAHSING ARMY BARRACKS AL1

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 35A

CH 304605N 1204650E

NPIC NO : - 7-A4

COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5034-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087786

HANGCHOU MILITARY AREA 1

WAC NO :

BE/OBJ NO:

CH 3015 N 12010 E

NPIC NO : -

25X1

1534

TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

	IUHS CODE: [Redacted]	EPF CAT : 35	COMIREX NO:		25X1
DIA NBRG	NDA07-5035-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087787
	HANGCHOU ARMY BARRACKS AL1 + HQ INFANTRY DIV		CH 301435N 1200320E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 55-A		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA NBRG	NDA07-5036-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087788
	LINGCHIACHIAO ARMY BARRACKS WEST AL1		CH 300913N 1200156E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 55		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA NBRG	NDA07-5037-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087789
	IHSING MILITARY AREA 1		CH 3122 N 11950 E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35	COMIREX NO:		
DIA NBRG	NDA07-5038-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087790
	IHSING ARMY BARRACKS AL1 + HQ INFANTRY DIV		CH 311717N 1194727E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 77-A		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA NBRG	NDA07-5039-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087791
	WUHSING ARMY BARRACKS AL5		CH 305448N 1200001E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 56-F		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA NBRG	NDA07-5040-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087792
	CHANGHSING ARMY BARRACKS AL3		CH 305645N 1195928E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 76-H		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]		25X1
DIA NBRG	NDA07-5041-79	20 JUL 79	SEC CLASS: 05G MSN:	0001P	ACCN: S087793
	CHINHUA MILITARY AREA 1		CH 2907 N 11939 E		
	WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -		25X1
	IUHS CODE: [Redacted]	EPF CAT : 35	COMIREX NO:		

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1



TOP SECRET CHESS RUFF



25X1

DIA NBRG NDA07-5042-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087794

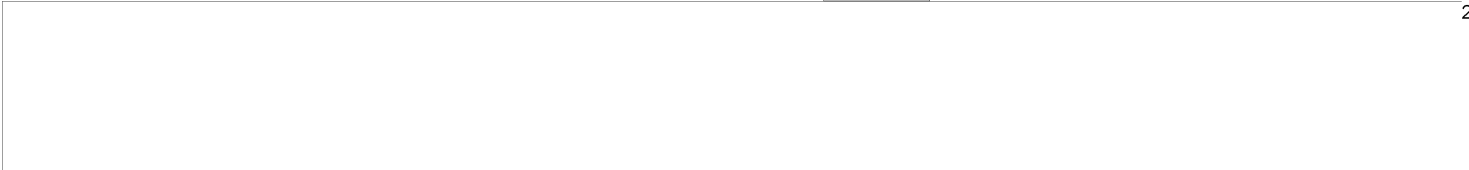
CHINHUA ARMY BARRACKS AL1 + HQ INFANTRY DIV CH 290743N 1193801E
WAC NO : BE/OBJ NO: NPIC NO : - 5-D
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5043-79 20 JUL 79 SEC CLASS: 05G MSN: 0001P ACCN: S087795

CHINHUA ARMY BARRACKS NW AL2 CH 290912N 1193707E
WAC NO : BE/OBJ NO: NPIC NO : - 5-D1
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1
25X1



AF PAR 608-79 12 JUN 79 SEC CLASS: 13 MSN: 0005P ACCN: S087797

KOLOMNA MISSILE DESIGN BUREAU 2 SUSP UR 550440N 0384920E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40E COMIREX NO:
KOLOMNA MISSILE DESIGN BUREAU 1 SUSP UR 550410N 0384810E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1
25X1

THIS REPORT AND ASSOCIATED DRAWING 79C6544 PROVIDE AN ANALYSIS OF TWO SUSPECT MISSILE DESIGN BUREAUS LOCATED IN KOLOMNA, USSR. A TABULATION LISTING ROOF COVERAGE, FLOORSPACE AND FUNCTION OF EACH BUILDING CONTAINED WITHIN EACH OF THE SUSPECT MISSILE DESIGN BUREAUS IS INCLUDED.*

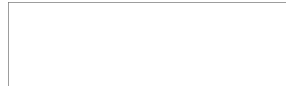
AF PAR 594-79 06 JUN 79 SEC CLASS: 13 MSN: 0002P ACCN: S087798

SOLNECHNOGORSK RADCOM TRANSMITTER COMPLEX UR 561204N 0365042E
WAC NO : BE/OBJ NO: NPIC NO : - 57-C
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS REPORT AND ASSOCIATED DRAWING 79D6545 PROVIDE AN ANALYSIS OF SOLNECHNOGORSK RADCOM XMTR COMPLEX.*

1536
TOP SECRET CHESS RUFF



25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Redacted]

25X1

AF PAR 619-79 22 JUN 79 [Redacted] SEC CLASS: 13 MSN: 0002P ACCN: S08780025X1

AIRCRAFT, BACKFIRE B MISSILE-LIKE OBJECT U/I UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 05D COMIREX NO:

THIS REPORT PROVIDES AN ANALYSIS OF A MISSILE-LIKE OBJECT FITTED BENEATH THE PORT, FIXED WING SECTION OF A BACKFIRE B IN THE TUPOLEV AREA AT RAMENSKOYE FTC. A DIMENSIONAL AND CONFIGURATIONAL COMPARISON OF THIS OBJECT WITH THE KITCHEN (AS-4) TO DETERMINE WHETHER THE OBJECT IS FITTED WITH ANY AERODYNAMIC CONTROL ON LIFT SURFACES IS INCLUDED. THIS OBJECT HAS BEEN OBSERVED ON THE BACKFIRE B FROM [Redacted]

25X1
25X1

[Redacted]

25X1

AF PAR 615-79 11 JUN 79 [Redacted] SEC CLASS: 13 [Redacted] 0003P ACCN: S087800325X1

1537
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

ELECTRONICS, VESNA HORN AZIMUTHS/TWR HEIGHTS	UR
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25D
PERKHUSHKOVO SRF COMD CNTRL CTR VESNA HORNS	UR 554120N 0371051E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25C
NOVOPETROVSKOYE SRF RADCOM XMTR VESNA HORNS	UR 555620N 0362726E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25C
NARO FOMINSK SRF RADCOM RCVR CPLX VESNA HORNS	UR 551918N 0364749E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25C
MOSKVA MISSILE ASSOCIATED INSTL BKR/ANTENNAS	UR 551143N 0363735E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25C

25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

25X1

AF PAK 611-79 13 JUN 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S087A1 25X1

MISSILES, AS-X-11 DEPLOYMENT SEARCH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 40J COMIREX NO:

1539
TOP SECRET CHESS RUFF

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

TOP SECRET CHESS RUFF

25X1

25X1

A REVIEW OF FOURTEEN SELECTED FACILITIES IN THE USSR FOR THE PAST YEAR TO DETERMINE IF THE SA-X-11 MISSILE IS OPERATIONALLY DEPLOYED FAILED TO IDENTIFY THE SA-X-11 AT ANY OF THE FACILITIES.*

25X1

AF PAR 585-79 05 JUN 79 SEC CLASS: 13 MSN: 0008P ACCN: S08781325X1

CHIUMENGCHIN SSM FIELD POSITION CH 344813N 1124018E
WAC NO : BE/OBJ NO: NPIC NO : - 17-A1
IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1

THIS REPORT AND ASSOCIATED DRAWING 79D6534 PROVIDE A PHOTO ANALYSIS UPDATE OF PAR 78-555, CHIU-MENG-CHIN SSM FIELD POSITION.*

25X1

1540
TOP SECRET CHESS RUFF

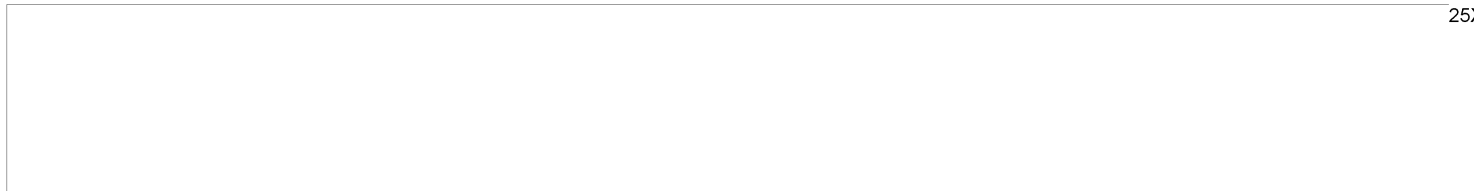
25X1
25X1



TOP SECRET CHESS RUFF



25X1



25X1

AF ENDR B4522-79 04 MAY 79 SEC CLASS: 13 MSN: 0001P ACCN: S0878125X1

TANCHOU SSM TRAINING FACILITY SERVICE TOWER CH 252600N 1092730E
WAC NO : BE/OBJ NO: NPIC NO : - 120
IUHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 79-582, 78-654, AND 73-658 AND DRAWING 73B4521/1.*

AF ENDR B4521-2-73 04 MAY 79 SEC CLASS: 13 MSN: 0001P ACCN: S0878125X1

ITU SSM TRAINING FACILITY SERVICE TOWER CH 363605N 1182847E
WAC NO : BE/OBJ NO: NPIC NO : - 195-B
IUHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1

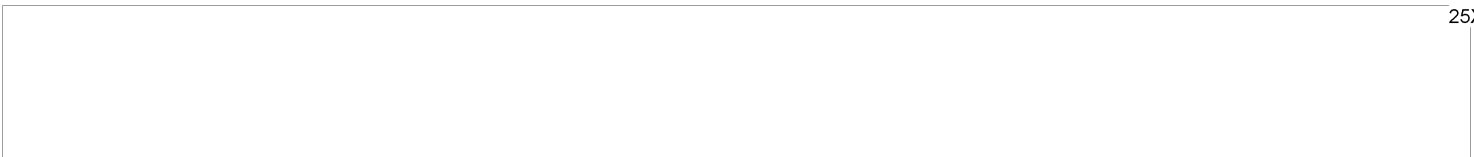
THIS DRAWING SUPPLEMENTS PARS 73-658 AND 77-535 AND SUPERSEDES DRAWING 72A4505.*

AF ENDR D6534-79 11 MAY 79 SEC CLASS: 13 MSN: 0001P ACCN: S0878125X1

CHIUMENGCHIN SSM FIELD POSITION CH 344813N 1124018E
WAC NO : BE/OBJ NO: NPIC NO : - 17-A1
IUHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-585.*



25X1

AF ENDR D6537-79 21 MAY 79 SEC CLASS: 13 MSN: 0001P ACCN: S087820 25X1

1541
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

TULA MISSILE DESIGN BUREAU SUSP

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E

UR 541205N 0373610E
NPIC NO : -
COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PAR 79-595.*

AF ENDR C6544-79 08 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087A21 25X1

KOLOMNA MISSILE DESIGN BUREAU 2 SUSP

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E

UR 550440N 0384920E
NPIC NO : -
COMIREX NO:

25X1

KOLOMNA MISSILE DESIGN BUREAU 1 SUSP

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40E

UR 550410N 0384810E
NPIC NO : -
COMIREX NO:

25X1

THIS DRAWING SUPPLEMENTS PAR 79-608.*

25X1

AF ENDR C6505-3-76 21 MAY 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087B23 25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 51

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05G

UR 554700N 0373230E
NPIC NO : - 46-I4
COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 77-597, 75-530, 78-578, AND 79-596, AND SUPERSEDES DRAWING 70C6575.*

AF ENDR E6563-7-70 22 MAY 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087B24 25X1

TAGANROG AIRFRAME PLANT DIMITROV 86

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05G

UR 471150N 0385220E
NPIC NO : - 38-D
COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 70-690, 72-526, 77-627, AND 79-600.*

AF ENDR C6506-3-76 05 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087B25 25X1

MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC

WAC NO : [] BE/OBJ NO: []

UR 554000N 0375600E
NPIC NO : - 58-N1

25X1

1542

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 05G COMIREX NO: []
MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC UR 554000N 0375600E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 58-N1
IDHS CODE: [] EPF CAT : 35G COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 77-613 AND 79-605 AND SUPERSEDES DRAWING 70C6544.*

AF ENDR C6528-79 15 MAY 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087A2

LAIYANG SSM/SPACE TRACKING FACILITY AREA A CH 370311N 1204642E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 31-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR 79-581.*

AF ENDR B6529-79 16 MAY 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087A2

LAIYANG SSM/SPACE TRACKING FACILITY CH 370311N 1204642E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 31-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR 79-581.*

AF ENDR D6551-3-69 22 FEB 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087A3

DNEPROPETROVSK MISSILE DPC RKT ENG TEST FACIL UR 482601N 0345828E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-C
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR'S 69-687, 73-608, AND 79-527.

25X1

AF ENDR D6506-5-74 15 MAY 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S087A3

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 240 UR 554803N 0373223E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 46-K3

25X1

1543
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1

THIS DRAWING SUPPLEMENTS PARS 76-521 AND 79-593.*

AF ENDR C6543-79 08 JUN 79 [] SEC CLASS: 13 MSN: 0001P

ACCN: 5087831 25X1

MOSKVA MISSILE/SPACE DEV CTR STATIC TEST FAC UR 555517N 0374805E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
MOSKVA MISSILE/SPACE DEV CTR STATIC TEST FAC UR 555517N 0374805E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X1
25X1
25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-607.*

AF ENDR C6589-7-70 01 JUN 79 [] SEC CLASS: 13 MSN: 0001P

ACCN: 5087832 25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT TSAGI 156 UR 554542N 0374034E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 96-D
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 76-616 AND 79-604.*

AF ENDR D6545-79 25 MAY 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: 5087833 25X1

SOLNECHNOGORSK RADCOM TRANSMITTER COMPLEX UR 561204N 0365042E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 57-C
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-594 AND SUPERSEDES DRAWING 71C4512.*

25X1

1544
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted] 25X1

DIA	NBRG	NDA07-5000-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087836
		KUANKOU MILITARY AREA					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	2440 N 11800 E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35		NPIC NO : -		
					COMIREX NO:		
DIA	NBRG	NDA07-5001-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087837
		KUANKOU ARMY BARRACKS AL1					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	244012N 1180145E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35A		NPIC NO : - 33-C		25X1
					COMIREX NO: [Redacted]		
DIA	NBRG	NDA07-5002-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087838
		CHANGTAI ARMY BARRACKS AL1					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	243920N 1174510E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35A		NPIC NO : - 159-B1		25X1
					COMIREX NO: [Redacted]		
DIA	NBRG	NDA07-5003-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087839
		CHANGCHOU ARMY BARRACKS NORTH AL2					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	243716N 1173908E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35A		NPIC NO : - 31-F1		25X1
					COMIREX NO: [Redacted]		
DIA	NBRG	NDA07-5004-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087840
		HSIAMEN ARMY BARRACKS AL2 + HEADQUARTERS ARTY					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	242838N 1180740E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35A		NPIC NO : - 1-D		25X1
					COMIREX NO: [Redacted]		
DIA	NBRG	NDA07-5005-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087841
		HSIAMEN ARMY BARRACKS NORTH AL11					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	243137N 1180626E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35A		NPIC NO : - 1-F1		25X1
					COMIREX NO: [Redacted]		
DIA	NBRG	NDA07-5006-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087842
		HSIANGKOU MILITARY AREA					
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	CH	2427 N 11736 E		25X1
		IUHS CODE: [Redacted]	EPF CAT : 35		NPIC NO : -		
					COMIREX NO:		
DIA	NBRG	NDA07-5007-79	25 JUL 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S087843

1545
TOP SECRET CHESS RUFF [Redacted]

[Redacted] 25X1
[Redacted] 25X1

TOP SECRET CHESS RUFF

25X1

HSIANGKOU ARMY BARRACKS AL4 + HQ INFANTRY DIV
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 242431N 1173503E
NPIC NO : - 66-A3
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5008-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087844

HSIANGKOU ARMY BARRACKS AL1
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 242817N 1173331E
NPIC NO : - 66
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5009-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087845

HSIANGKOU ARMY BARRACKS AL2
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 242608N 1173447E
NPIC NO : - 66-A1
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5010-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087846

HSIANGKOU ARMY BARRACKS AL5
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 242505N 1173630E
NPIC NO : - 66-A4
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5011-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087847

HSIANGKOU ARMY BARRACKS AL3
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 242746N 1173439E
NPIC NO : - 66-A2
COMIREX NO: []

25X1

DIA NBRG NDA07-5012-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087848

CHIUTIEN MILITARY AREA
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35

CH 2500 N 11830 E
NPIC NO : -
COMIREX NO: []

25X1

DIA NBRG NDA07-5013-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087849

CHIUTIEN ARMY BARRACKS AL1 + HQ INFANTRY DIV
WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 245502N 1182659E
NPIC NO : - 138
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5014-79 25 JUL 79

SEC CLASS: 05G MSN: 0001P

ACCN: S087850

1546
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

	HSINCHIAO ARMY BARRACKS	BE/OBJ NO: [Redacted]	CH 250216N 1182316E			
	WAC NO : [Redacted]	EPF CAT : 35A	NPIC NO : - 73			25X1
	IDHS CODE: [Redacted]		COMIREX NO: [Redacted]			25X1
DIA	NBRG NDA07-5015-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087851
	HUNGLAI ARMY BARRACKS AL2	BE/OBJ NO: [Redacted]	CH 250238N 1183208E			
	WAC NO : [Redacted]	EPF CAT : 35A	NPIC NO : - 24-C			25X1
	IDHS CODE: [Redacted]		COMIREX NO: [Redacted]			25X1
DIA	NBRG NDA07-5016-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087852
	TSENGTSO ARMY BARRACKS AL1	BE/OBJ NO: [Redacted]	CH 244927N 1182426E			
	WAC NO : [Redacted]	EPF CAT : 35A	NPIC NO : - 87-A			25X1
	IDHS CODE: [Redacted]		COMIREX NO: [Redacted]			25X1
DIA	NBRG NDA07-5017-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087853
	TSENGTSO ARMY BARRACKS NE AL2	BE/OBJ NO: [Redacted]	CH 245059N 1182542E			
	WAC NO : [Redacted]	EPF CAT : 35A	NPIC NO : - 87			25X1
	IDHS CODE: [Redacted]		COMIREX NO: [Redacted]			25X1
DIA	NBRG NDA07-5018-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087854
	TUNGAN MILITARY AREA	BE/OBJ NO: [Redacted]	CH 2443 N 11805 E			
	WAC NO : [Redacted]	EPF CAT : 35	NPIC NO : -			25X1
	IDHS CODE: [Redacted]		COMIREX NO:			
DIA	NBRG NDA07-5019-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087855
	TUNGAN ARMY BARRACKS NORTH AL2	BE/OBJ NO: [Redacted]	CH 244632N 1180844E			
	WAC NO : [Redacted]	EPF CAT : 35A	NPIC NO : - 46-E			25X1
	IDHS CODE: [Redacted]		COMIREX NO: [Redacted]			25X1
DIA	NBRG NDA07-5020-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087856
	TUNGAN ARMY BARRACKS NE AL4	BE/OBJ NO: [Redacted]	CH 244629N 1181414E			
	WAC NO : [Redacted]	EPF CAT : 35A	NPIC NO : - 46			25X1
	IDHS CODE: [Redacted]		COMIREX NO: [Redacted]			25X1
DIA	NBRG NDA07-5021-79 25 JUL 79		SEC CLASS: 05G MSN:	0001P		ACCN: S087857
	SHENCHING ARMY BARRACKS AL2 + HEADQUARTERS		CH 243616N 1175734E			

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 59
IUHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5022-79 25 JUL 79 SEC CLASS: 05G MSN: 0001P

ACCN: S087858

TUNGAN ARMY BARRACKS WEST AL6

WAC NO : [] BE/OBJ NO: [] CH 244417N 1180417E
IUHS CODE: [] EPF CAT : 35A NPIC NO : - 46-F
COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5033-78 27 JUL 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087859

TALLINN NAVAL FACILITIES/SHIPYARD/APPROACHES

WAC NO : [] BE/OBJ NO: [] UR 5927 N 02441 E
IUHS CODE: [] EPF CAT : 75B NPIC NO : -
COMIREX NO: []

25X1

TALLINN NAVAL FACILITIES/SHIPYARD/APPROACHES

WAC NO : [] BE/OBJ NO: [] UR 5927 N 02441 E
IUHS CODE: [] EPF CAT : 75E NPIC NO : -
COMIREX NO: []

25X1

DIA NBRG NDA06-5034-78 27 JUL 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087860

TALLINN NAVAL BASE + SHIPYARD MORSKOY ZAVOD

WAC NO : [] BE/OBJ NO: [] UR 592713N 0244319E
IUHS CODE: [] EPF CAT : 75B NPIC NO : - 76-Q
COMIREX NO: []

25X1
25X1

TALLINN NAVAL BASE + SHIPYARD MORSKOY ZAVOD

WAC NO : [] BE/OBJ NO: [] UR 592713N 0244319E
IUHS CODE: [] EPF CAT : 75E NPIC NO : - 76-Q
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5050-79 27 JUL 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087861

PUSHKIN ARMY BARRACKS AL1/HQ ARTY DIV/SCHOOL

WAC NO : [] BE/OBJ NO: [] UR 594217N 0302348E
IUHS CODE: [] EPF CAT : 35A NPIC NO : - 58-A
COMIREX NO: []

25X1
25X1

PUSHKIN ARMY BARRACKS AL1/HQ ARTY DIV/SCHOOL

WAC NO : [] BE/OBJ NO: [] UR 594217N 0302348E
IUHS CODE: [] EPF CAT : 35B NPIC NO : - 58-A
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5051-79 27 JUL 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087862

PUSHKIN ARMY BARRACKS AL2 + HQ ARTILLERY DIV

WAC NO : [] BE/OBJ NO: [] UR 594028N 0302711E
IUHS CODE: [] EPF CAT : 35A NPIC NO : - 58-B
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5052-79 27 JUL 79 SEC CLASS: 05B MSN: 0001P

ACCN: S087863

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

LENINGRAD ARMY BARRACKS DIBUNY AL33

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

UR 600752N 0301011E
NPIC NO : - 42-X1
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5053-79 27 JUL 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087864

BEREZINO ARMY BARRACKS AL1 + SSM SUPPORT FAC

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

UR 461342N 0291150E
NPIC NO : - 130-C2
COMIREX NO: []

25X1
25X1

BEREZINO ARMY BARRACKS AL1 + SSM SUPPORT FAC

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40

UR 461342N 0291150E
NPIC NO : - 130-C2
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5054-79 27 JUL 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087865

FASTOV ARMY BARRACKS SW AL1

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

UR 500416N 0295439E
NPIC NO : 150
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5055-79 27 JUL 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087866

BAKHCHISARAY ARMY BARRACKS AL1

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

UR 444545N 0335151E
NPIC NO : - 133
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5026-79 27 JUL 79

SEC CLASS: 05B MSN: 0001P

ACCN: S087867

GDANSK MILITARY BARRACKS REITER 2

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

PL 542050N 0184000E
NPIC NO : - 37-F1
COMIREX NO: []

25X1
25X1

25X1

1549
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA NBRG NDA07-5046-79 27 JUL 79 SEC CLASS: 05B MSN: 0001P ACCN: 5087870
 MILOVICE ARMY BARRACKS NW 201 CZ 501346N 0145211E
 WAC NO : BE/OBJ NO: NPIC NO : - 110-A
 IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1
25X1

DIA NBRG NDA07-5048-79 27 JUL 79 SEC CLASS: 05B MSN: 0001P ACCN: 5087872
 BYDGOSZCZ MILITARY INSTALLATION KOSZARY 1/4 PL 530832N 0180052E
 WAC NO : BE/OBJ NO: NPIC NO : - 20-B
 IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5049-79 27 JUL 79 SEC CLASS: 05B MSN: 0001P ACCN: 5087873
 GLOGOW AMMUNITION DEPOT NE 508 PL 514230N 0160830E
 WAC NO : BE/OBJ NO: NPIC NO : - 316-B2
 IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1
25X1
25X1

1550
TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

DIA IIM 5B1-72670-79 20 JUL 79

[Redacted]

SEC CLASS: 14B MSN:

[Redacted]

0007P

ACCN: 5087825X15X1

SLUTSK ENGINEER REPAIR FACILITY

UR 530200N 0273520E

1553
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

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TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 67-11
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-72684-79 23 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087894

25X1

BALTIC WATER RANGE CPLX BOMB RANGE/AFLD SRCH UR 5510 N 05600 E
WAC NO : 0165 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72683-79 23 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S087896

25X1

BABAYEV BOMBING RANGE SEARCH UR 5924 N 03645 E
WAC NO : 0154 BE/OBJ NO: NPIC NO : -
IDHS CODE: [] EPF CAT : 05 COMIREX NO:

25X1

DIA NOTE [] 02 AUG 79 [] SEC CLASS: 13 MSN: [] 0002P ACCN: S087897

25X1

SOVETSK ARMY BKS AL2/HQ TANK DIV BMP VARIANT UR 550508N 0215149E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 69-L
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1

25X1

FOUR NEW BMP VARIANT VEHICLES WERE FIRST OBSERVED AT SOVETSK ARMY BARRACKS AL2 ON IMAGERY OF []
[] THIS BMP VARIANT IS IDENTICAL TO THE STANDARD BMP BUT IS FLAT TOPPED, WITHOUT A TURRET, AND NO
EVIDENCE OF A TURRET RING WAS OBSERVED. NO ANTENNAS, ANTENNA MOUNTS, OR OTHER IDENTIFIED PROJECTIONS WERE
DISCERNIBLE ON THESE VARIANTS.*

25X1

25X1

1554
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

25X1

DIA IIM 5B1-72682-79 25 JUL 79 [redacted] SEC CLASS: 14 MSN: [redacted] 0002P ACCN: 508790 25X1

CHERKASSY BOMBING RANGE/SIMULATED AFLD SRCH UR 4926 N 03204 E
WAC NO : 0233 BE/OBJ NO: [redacted] NPIC NO : -
IDHS CODE: [redacted] EPF CAT : 05 COMIREX NO: [redacted]

25X1

NPIC MEMO [redacted] 23 JUL 79 [redacted] SEC CLASS: 13 MSN: [redacted] 0001P ACCN: 508790 25X1

IMENI TSYURUPY RADIO RELAY STATION UR 553130N 0383930E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 128
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted]

25X1

25X1

THIS MEMO PROVIDES THE NUMBER, TYPE AND ORIENTATIONS OF ANTENNAS AT IMENI TSYURUPY RADIO RELAY STATION.

25X1

25X1

DIA NBRG NDA06-5042-78 30 JUL 79 SEC CLASS: 05B MSN: [redacted] 0001P ACCN: 5087905

LIEPAJA NAVAL MISSILE SUPPORT FACILITY UR 563302N 0210010E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 3-J1
IDHS CODE: [redacted] EPF CAT : 406 COMIREX NO: [redacted]

25X1

25X1

1555
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA	NBRG	NDA06-5043-78	30 JUL 79	SEC CLASS: 05B	MSN:	0001P	ACCN: S087906
		DONUZLAV OZERO NAVAL COASTAL DEF FORCE BASE		UR	451930N 0325950E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO :	- 188		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]		25X1
DIA	NBRG	NDA06-5044-78	30 JUL 79	SEC CLASS: 05B	MSN:	0001P	ACCN: S087907
		KERCH NAVAL OFFSHORE DEFENSE FORCE BASE		UR	452100N 0362840E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO :	- 13-F5		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]		25X1
DIA	NBRG	NDA06-5045-78	30 JUL 79	SEC CLASS: 05B	MSN:	0001P	ACCN: S087908
		CHERNOMORSKOYE NAVAL BASE		UR	453056N 0324143E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO :	- 92-E		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]		25X1
DIA	NBRG	NDA06-5046-78	30 JUL 79	SEC CLASS: 05B	MSN:	0001P	ACCN: S087909
		PALDISKI NAVAL BASE		UR	592005N 0240451E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO :	- 50-A		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]		25X1
DIA	NBRG	NDA06-5047-78	30 JUL 79	SEC CLASS: 05B	MSN:	0001P	ACCN: S087910
		RYBINSK SHIPYARD KATEROSTROYENIYE 341		UR	580352N 0384800E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO :	- 52-I1		25X1
		IDHS CODE: []	EPF CAT : 75E	COMIREX NO:	[]		25X1
CIA	INFR	IS10116K-79	17 JUL 79	SEC CLASS: 13	MSN:	0005P	ACCN: S087911
		MILITARY, EQUIPMENT DELIVERIES SOVIET		CU			
		WAC NO :	BE/OBJ NO:	NPIC NO :	-		
		IDHS CODE:	EPF CAT : 35E	COMIREX NO:			

ANALYSIS OF IMAGERY OF SELECTED CUBAN PORTS, AIRFIELDS, AND MILITARY FACILITIES FROM APRIL 1978 THROUGH MARCH 1979 HAS PROVIDED INFORMATION ON RECENT ARMS DELIVERIES TO CUBA. OF SIGNIFICANCE WAS THE FIRST IDENTIFICATION OF MIG-23 FLOGGERS IN CUBA. THREE FLOGGERS AND AT LEAST 10 FLOGGER FUSELAGE CRATES WERE SEEN IN CUBA AT SAN ANTONIO DE LOS BANOS AIRFIELD ON MAY 1978 PHOTOGRAPHY. IN NOVEMBER 1978, AT CAMPO LIBERTAD AIRFIELD, A HIGH COUNT OF 20 HIP HELICOPTERS AND THE FIRST FIVE AN-24 COKE/AN-26 CURL WERE SEEN IN CUBA. BY MARCH 1979, THE NUMBER OF COKE/CURL HAD INCREASED TO 11. HIP HELICOPTERS HAD BEEN INTRODUCED

1556
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

INTO CUBA'S AIR ORDER OF BATTLE INVENTORY IN FEBRUARY 1978, WHEN EIGHT FUSELAGE CRATES WERE PRESENT AT THE AIRFIELD.

DURING THE STUDY PERIOD OIA ALSO SAW THE DELIVERY OF BMP ARMORED PERSONNEL CARRIERS, AN F-CLASS SUBMARINE, AND TWO TURYA PTH (HYDROFOIL). ALL THREE WEAPONS SYSTEMS ARE NEW INTRODUCTIONS INTO CUBA'S ARMED FORCES INVENTORY.

25X1

CIA INFR IS10118K-79 19 JUL 79 SEC CLASS: 14 MSN: 0005P ACCN: 508791325X1

MILITARY, ARTILLERY BRIGADES UPGRADING EG
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35D COMIREX NO:

IN JULY 1978, EGYPT BEGAN UPGRADING THE ARTILLERY IN THE ARTILLERY BRIGADES SUBORDINATE TO MOTORIZED AND MECHANIZED INFANTRY DIVISIONS. THIS WAS ACCOMPLISHED WITH 130-MM FIELD GUNS AND BM-11 MULTIPLE ROCKET LAUNCHERS PURCHASED FROM NORTH KOREA. TWO BATTALIONS OF 130-MM FIELD GUNS REPLACED TWO 100-MM FIELD GUN BATTALIONS AND A BATTALION OF BM-11 MULTIPLE ROCKET LAUNCHERS WAS ADDED TO THE BRIGADE STRUCTURE IN THE ARTILLERY BRIGADES OF MOTORIZED INFANTRY DIVISIONS. IN THE ARTILLERY BRIGADES SUBORDINATE TO THE MECHANIZED INFANTRY DIVISIONS, NO REPLACEMENTS OCCURRED IN THE EXISTING 122-MM HOWITZER BATTALIONS, BUT A BATTALION OF BM-11S WAS ADDED TO THE BRIGADE STRUCTURE. NO CHANGES OCCURRED IN THE ARTILLERY BRIGADES SUBORDINATE TO THE ARMORED DIVISIONS.

AT APPROXIMATELY THE SAME TIME, BMP ARMORED PERSONNEL CARRIERS WERE REMOVED FROM THE 18TH AND 19TH MECHANIZED INFANTRY DIVISIONS AND REPLACED WITH OT-62 ARMORED PERSONNEL CARRIERS. SUBSEQUENTLY, THE OT-62S OF A MECHANIZED BRIGADE IN EACH OF THE TWO DIVISIONS WERE EQUIPPED WITH RECOILLESS RIFLES.

CIA INFR IS10113K-79 09 JUL 79 SEC CLASS: 13 MSN: 0011P ACCN: 508791425X1

PLESETSK MTC GUIDANCE RELATED FACILITIES U/C UR 625746N 0402346E
WAC NO : BE/OBJ NO: NPIC NO : - 27
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

1557
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

NORILSK HEAT + THERMAL POWER PLANT TETS 1	UR	691943N 0881020E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	25X1
NORILSK HEAT + THERMAL POWER PLANT TETS 2	UR	693107N 0882020E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	25X1
ROSTOV NA DONA HEAT + TTP NOVOROSTOVSKAYA 2	UR	471304N 0393454E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	25X1
USOLYE SIBERSKOYE HEAT + TPP IRKUTSK TETS 11	UR	524700N 1033613E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	25X1
UST KAMENOGORSK HEAT + THERMAL POWER PLT TETS	UR	495856N 0823659E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	25X1
INDUSTRY, THERMAL POWER PLANTS	UR		
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:	

THIS MEMO DESCRIBES 15 SELECTED SOVIET THERMAL POWER PLANTS ON WHICH INFORMATION FROM OTHER SOURCES HAS BEEN DEFICIENT. THE STUDIES HIGHLIGHT GENERATING CAPACITY, NUMBER OF GENERATING UNITS, OPERATIONAL STATUS, TYPES OF FUEL USED AND EVIDENCE OF EXPANSION.

25X1

CIA INFR 1S10114K-79 06 JUL 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S08791725X1

SAN ANTONIO DE LOS BANOS AIRFIELD A/C SHELTER	CU	225217N 0823036W	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 164	
IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []	25X1

THE CONSTRUCTION ON NEW HARDENED AIRCRAFT SHELTERS AT THE CUBAN AIRFIELDS OF SAN ANTONIO DE LOS BANOS, SANTA CLARA, AND HOLGUIN CONTINUES AT A SLOW BUT STEADY PACE. ANALYSIS OF JUNE 1979 SATELLITE PHOTOGRAPHY REVEALS THAT FOUR HARDENED AIRCRAFT SHELTERS ARE COMPLETE, 21 ARE NEARING COMPLETION, FOUR ARE IN THE MIDDLE STAGE OF CONSTRUCTION, AND WORK IS UNDERWAY ON 11 FOUNDATIONS. SITE PREPARATION IS APPARENT FOR EIGHT ADDITIONAL HARDENED AIRCRAFT SHELTERS WHICH WOULD BRING THE TOTAL TO 48.

25X1
25X1

1559
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1
25X1

CIA INFR IS10102K-79 29 JUN 79 [] SEC CLASS: 14AY MSN: 0024P ACCN: S087918 25X1

MILITARY, GROUND FORCES INSTALLATIONS RH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35A COMIREX NO:

OIA HAS ANALYZED ALL AVAILABLE SATELLITE PHOTOGRAPHY OF RHODESIA FROM JANUARY 1977 TO JANUARY 1979 AND HAVE IDENTIFIED 30 MAJOR MILITARY INSTALLATIONS, 37 MINOR MILITARY CAMPS, AND 36 RHODESIAN BRITISH SOUTH AFRICAN POLICE (BSAP) CAMPS. THE MILITARY INSTALLATIONS ARE CONCENTRATED IN THE NORTHEAST PART OF THE COUNTRY AND NEAR THE MAJOR CITIES OF SALISBURY (17-48S 31-04E), BULAWAYO (20-08S 28-46E), GWELO (19-27S 29-47E), AND FORT VICTORIA (20-05S 30-50E). SEVERAL MAJOR MILITARY INSTALLATIONS ARE IN EACH OF THESE CITIES.

CIA INFR IS10104K-79 27 JUN 79 [] SEC CLASS: 13 MSN: [] 0007P ACCN: S087919 25X1

MISSILES, CSS-1/CSS-2 SITES CONCEALMENT ACT CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, CSS-1/CSS-2 SITES CONCEALMENT ACT CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 10I COMIREX NO:

ANALYSIS OF CHINESE ATTEMPTS TO CONCEAL THEIR PERMANENT CSS-1 MEDIUM-RANGE BALLISTIC MISSILE (MRBM) AND CSS-2 INTERMEDIATE-RANGE BALLISTIC MISSILE (IRBM) LAUNCH SITES REVEALED THAT THEY ATTEMPTED TO CONCEAL MOST OF THE SITES, BUT THEIR METHODS WERE NOT UNIFORMLY APPLIED AND THEY WERE UNSUCCESSFUL. AT MOST OF THE LAUNCH SITES THE MISSILE LAUNCH PADS AND MISSILE LOADING APRONS HAD BEEN COVERED WITH A LAYER OF EARTH OR SHRUB-LIKE VEGETATION OR BOTH. AT A FEW LAUNCH SITES VEGETATION WAS PLANTED OR PLACED ON A FEW SITE FEATURES SUCH AS SUPPORT BUILDINGS AND ACCESS ROADS. THE ANALYSIS WAS PERFORMED USING [] OBTAINED BETWEEN NOVEMBER 1977 AND SEPTEMBER 1978.

25X1

CIA INFR IS10107K-79 27 JUN 79 [] SEC CLASS: 13 MSN: 0004P ACCN: S087920 25X1

OSTROV SSM TRAINING POSITION 2 CONVERTED UR 572310N 0281000E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 153-B2
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1
25X1

THE SOVIETS HAVE CONVERTED THE OSTROV SS-4 SSM LAUNCHER TRAINING POSITION 2 TO A FACILITY FOR TRAINING CREWS IN MISSILE OPERATIONS AT TYPE III-D (SS-11) SILOS. SINCE DECEMBER 1977 -- THE CUTOFF DATE OF OIA'S LAST REPORT ON OSTROV -- THE WARHEAD TRAINING POSITION HAS BEEN PAVED, AND OIA HAS IDENTIFIED THREE IMPROVED MISSILE FUELING TRAINING POSITIONS AND THREE VERTICAL STORAGE TANKS. IN ADDITION, SS-11 ICBM EQUIPMENT WAS STILL AT THE TRAINING FACILITY ON [] -- NEARLY TWO YEARS AFTER THE FIRST IDENTIFICATION OF SS-11 EQUIPMENT AT OSTROV.

25X1

1560
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

CIA INFR IS1010e-79 20 JUN 79 [] SEC CLASS: 14 MSN: 0017P

ACCN: S087921 25X1

AIRFIELDS, AIR FORCE O/B RH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05A COMIREX NO:

THE RHODESIAN AIR FORCE HAS SEVEN OPERATIONAL SQUADRONS, WHICH PERFORM A VARIETY OF MISSIONS RANGING FROM BOMBING AND CLOSE AIR SUPPORT TO TRANSPORT AND LIAISON. THREE OF THE SQUADRONS ARE BASED AT SALISBURY/NEW SARUM AIRFIELD AND FOUR ARE BASED AT GWELO/THORNHILL AIRFIELD. AIRCRAFT FROM THESE TWO AIRFIELDS DEPLOY TO ANY OF 11 FORWARD AIRFIELDS TO MEET OPERATIONAL REQUIREMENTS. HOWEVER, OIA DID NOT OBSERVE FIGHTER OR BOMBER AIRCRAFT DEPLOYED TO ANY OF THE 11 FORWARD AIRFIELDS. ONE OR TWO TRANSPORT, LIAISON, OR CLOSE AIR SUPPORT AIRCRAFT ARE APPARENTLY REGULARLY STATIONED AT SOME OF THE MORE ACTIVE FORWARD AIRFIELDS.

25X1

1561
TOP SECRET CHESS RUFF

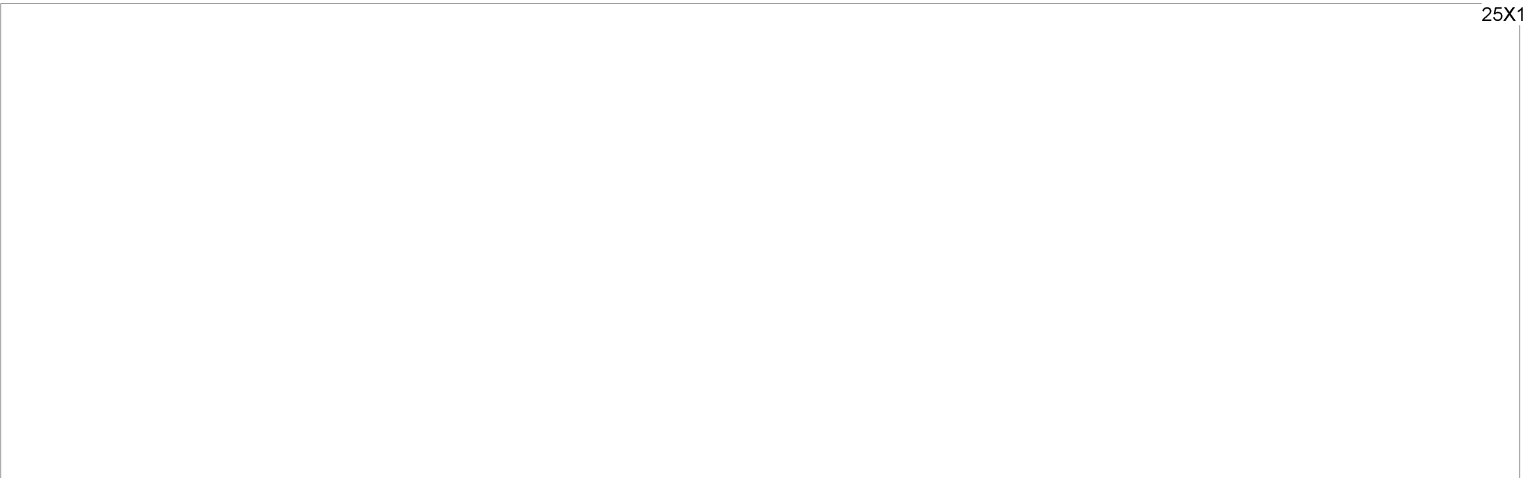
25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1



25X1

ARMY DSIIR RAC24-8004-79

APR 79

SEC CLASS: 05B MSN:

010P

ACCN: 5087928

MILITARY, MDK-2M DITCHING MACHINE

UR

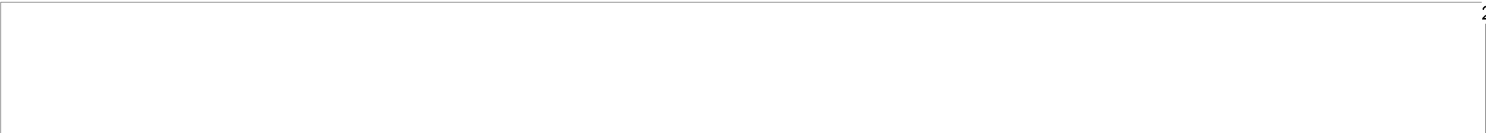
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35E

NPIC NO : -
COMIREX NO:

THIS DIRECT SUPPORT IMAGERY INTERPRETATION REPORT (DSIIR) UPDATES A BASIC REPORT (RAC-24/5011/74) WITH ADDITIONAL IMAGERY AND DETAILED MENSURATION OF THE HIGH-SPEED ROTARY EXCAVATOR USED ON THE MDK-2M DITCHING MACHINE.

THIS DSIIR DESCRIBES ONLY THE ROTARY EXCAVATOR AND PROVIDES MEASUREMENTS OF VARIOUS COMPONENTS. INCLUDED ARE ANNOTATED PHOTOGRAPHS, LINE DRAWINGS, AND A CHART PORTRAYING COMPONENT MEASUREMENTS. INFORMATION IS CURRENT AS OF NOVEMBER 1978.



25X1

1562

TOP SECRET CHESS RUFF



25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC MEMO [redacted] 17 MAY 79 [redacted] SEC CLASS: 13 MSN: 0002P ACCN: S087935 25X1

PARDUBICE RADAR RESEARCH + PROD PLT OPOCINEK CZ 500116N 0153927E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 220-D6
IDHS CODE: [redacted] EPF CAT : 25E COMIREX NO:

25X1

25X1

[redacted] WERE REVIEWED TO LOCATE OPOCINEK RADIOTECHNICAL RESEARCH INSTITUTE AND TO PROVIDE A DESCRIPTION OF THE FACILITY AND ASSOCIATED TESTING EQUIPMENT. THE WALL-SECURED INSTALLATION WAS LOCATED AND IS TARGETED AS PARDUBICE RADAR RESEARCH AND PRODUCTION PLANT OPOCINEK.

AF BIIR RFB22-5003-79 MAY 79 SEC CLASS: 05 MSN: 0014P ACCN: S087936

AIRCRAFT: FLAGON F SU-15 UR
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : -
IDHS CODE: [redacted] EPF CAT : 05D COMIREX NO:

THIS REPORT PRESENTS AN ANALYSIS OF THE FLAGON F (SU-15), A TWIN-ENGINE, MODIFIED-DELTA-WING, SINGLE PLACE, FIGHTER AIRCRAFT DESIGNED BY THE P.O. SUKHOI SPECIAL DESIGN BUREAU (OKB). THE REPORT INCLUDES A BASIC DESCRIPTION, ENGINEERING DRAWINGS AND SELECTED PHOTOGRAPHY OF THE AIRCRAFT. THE FLAGON F IS AN ALL-WEATHER JET INTERCEPTOR EMPLOYING TWO ANAB (AA-3) AIR-TO-AIR MISSILES AS BASIC ARMAMENT. THIS AIRCRAFT HAS A FUSELAGE LENGTH OF [redacted]

25X1

25X1

1564
TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

[Large Redacted Area]

25X1

AF BIIR RFB22-5002-79 JAN 79 SEC CLASS: 07 MSN: 0008P ACCN: S087941

MISSILES, AS-7
WAC NO :
IDHS CODE: BE/OBJ NO: EPF CAT : 40J UR NPIC NO : - COMIREX NO:

THIS REPORT PRESENTS AN ANALYSIS OF THE KERRY (AS-7), A TACTICAL AIR-TO-SURFACE MISSILE (TASM) WHICH HAS BEEN PHOTOGRAPHED ABOARD FISHBED F, FITTER C, FITTER D, AND FLOGGER D AIRCRAFT. THIS REPORT INCLUDES A BASIC DESCRIPTION, ORTHOGRAPHIC ENGINEERING DRAWINGS AND SELECTED PHOTOGRAPHY OF THE MISSILE. THE KERRY TASM HAS A LENGTH OF

[Redacted]

25X1

25X1

1566
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

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TOP SECRET CHESS RUFF

25X1



25X1

ARMY DSIIB BAC24-3002-79 JUL 79 SEC CLASS: 14B MSN: 0004P ACCN: S087946

25X1

MILITARY: BM-14/17 140MM RKT LNCHR GAZ-66 MTD UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 35E COMIREX NO:

THE PURPOSE OF THIS DIRECT SUPPORT IMAGERY INTERPRETATION BRIEF (DSIIB) IS TO PROVIDE A DESCRIPTION AND ASSESSMENT OF THE GAZ-66 TRUCK-MOUNTED SOVIET 140MM BM 14-17 MULTIPLE ROCKET LAUNCHER (MRL). THIS MRL, FORMERLY REPORTED AS OBSOLETE, IS NOW CONSIDERED AN ACTIVE WEAPON IN THE SOVIET'S ARSENAL. INCLUDED IN THIS DSIIB ARE THREE PHOTOGRAPHS, A BASIC DESCRIPTION, ONE ARTIST'S CONCEPT, ONE ORTHOGRAPHIC DRAWING WITH DIMENSIONS, AND IMAGERY ANALYST'S COMMENTS. INFORMATION IS CURRENT AS OF 1 SEPTEMBER 1978.

25X1



ARMY DSIIR RAC24-8002-79 APR 79 SEC CLASS: 05CY MSN: 0017P ACCN: S087948

MILITARY: TYPE-59 TRACKED PRIME MOVER CH

1572
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35E COMIREX NO:

THIS REPORT--BASED ON OVERHEAD IMAGERY, GROUND PHOTOGRAPHY, AND COLLATERAL REPORTS--DESCRIBES THE TYPE 59 TRACKED PRIME MOVER PRODUCED BY THE PEOPLE'S REPUBLIC OF CHINA (PRC). THIS REPORT INCLUDES AN INTRODUCTION, BASIC DESCRIPTION, FUNTIONAL DESCRIPTION, IDENTIFICATION FEATURES, REFERENCE DATA, 12 ANNOTATED PHOTOGRAPHS, 2 STEREOGRAMS, AND 1 LINE DRAWING OF THE TYPE 59 TRACKED PRIME MOVER. THE INFORMATION IS CURRENT AS OF 31 AUGUST 1978.

DIA IIM 5B1-73378-79 02 OCT 79 [] SEC CLASS: 14B MSN: [] 0001P ACCN: S08794925X1

KURSK ORDNANCE DEPOT D01

WAC NO : BE/OBJ NO: UR 514210N 0361720E
IDHS CODE: [] EPF CAT : 35F NPIC NO : - 23-D1
COMIREX NO: []

25X1
25X1

ARMY BIIB BAC24-5001-78 DEC 78 SEC CLASS: 08L MSN: 0004P ACCN: S087950

AIRCRAFT, HIP F MI-8

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS BASIC IMAGERY INTERPRETATION BRIEF (BIIB) HAS BEEN COMPILED IN RESPONSE TO BASIC READOUT REQUIREMENTS AND BASIC PRESENTATION INSTRUCTIONS AS APPROVED BY THE DIRECTOR OF CENTRAL INTELLIGENCE, COMMITTEE ON IMAGERY REQUIREMENTS AND EXPLOITATION (COMIREX). THE PURPOSE OF THIS BRIEF IS TO PROVIDE INFORMATION ON THE HIP F HELICOPTER. THE HIP F GREATLY INCREASES THE WARSAW PACT'S AIRMOBILE AND ANTITANK CAPABILITIES. THIS BIIB CONSISTS OF NARRATIVE TEXT, FIVE ILLUSTRATIONS, AND REFERENCE DATA. THE INFORMATION CONTAINED IN THIS BRIEF IS CURRENT AS OF 30 APRIL 1978.

DIA IIM 5B1-73343-79 26 SEP 79 [] SEC CLASS: 14B MSN: [] 0001P ACCN: S08795125X1

WARSAWA STORAGE FACILITY 528 U/I HWY CONST PL 521058N 0210407E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: [] EPF CAT : 80 COMIREX NO:
WARSAWA STORAGE FACILITY 528 U/I HWY CONST PL 521058N 0210407E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: [] EPF CAT : 85A COMIREX NO:

25X1

225X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA	IIM	551-72694-79	26 JUL 79	[REDACTED]	SEC CLASS: 14	MSN: [REDACTED]	0002P	ACCN: 5087955	25X1
		YOSHIKAWA BOMBING RANGE			UR	562633N 0474100E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 15-0			25X15X1
		IDHS CODE:	[REDACTED]	EPF CAT : 05	COMIREX NO:				
DIA	IIM	551-72714-79	26 JUL 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0008P	ACCN: 5087956	25X1
		GOMEL AMMUNITION DEPOT SW DA1			UR	522244N 0304453E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 16-B			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:	[REDACTED]			25X1
DIA	IIM	551-72708-79	26 JUL 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0005P	ACCN: 5087957	25X1
		BUTNAKSK AMMUNITION STORAGE DEPOT DA1			UR	424758N 0470619E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 100-B5			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:				
DIA	IIM	551-72725-79	26 JUL 79	[REDACTED]	SEC CLASS: 14	MSN: [REDACTED]	0003P	ACCN: 5087958	25X1
		DALLA ARMY BARRACKS AL1			UR	475640N 0293605E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 4-1			25X1

1574

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []

EPF CAT : 35A

COMIREX NO: []

25X1

DIA IIM 5B1-72705-79 27 JUL 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: S087959 25X1

UZHANKOY BOMBING RANGE

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 05

UR 454729N 0344335E
NPIC NO : - 21-C
COMIREX NO:

225X1

AF PAR 4-79 03 JUL 79 SEC CLASS: 08 MSN: 0002P

ACCN: S087960

AIRCRAFT, FITTER F ENGINE COMPARTMENT

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 05D

UR
NPIC NO : -
COMIREX NO:

DRAWING 77E1004/2 (C) SUPPLEMENTS THIS REPORT.*

25X1

1575
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR D3003-79 01 JUN 79 SEC CLASS: 07 MSN: 0001P ACCN: S087965

SPACE, MOLNIYA-1 MODIFIED UR

WAC NO : BE/OBJ NO: NPIC NO : -

IHS CODE: EPF CAT : 40H COMIREX NO:

25X1

AF PAR 3-79 21 MAY 79 SEC CLASS: 00B MSN: 0001P ACCN: S087969

AIRCRAFT, COKE AN-24RV PROPELLER DIMENSIONS UR

WAC NO : BE/OBJ NO: NPIC NO : -

IHS CODE: EPF CAT : 05D COMIREX NO:

25X1

1576
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC IIR IIR040-79 18 JUL 79 Z20013-79 SEC CLASS: 05G MSN: 0002P ACCN: S087988

OBOR AIRFIELD HELI COMBAT ASSAULT REGT IDENT UR 480718N 1354540E
WAC NO : BE/OBJ NO: NPIC NO : - 19
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

NPIC IIR IIR041-79 25 JUL 79 SEC CLASS: 14B MSN: 0003P ACCN: S087989

REMBERTOW ARMY BARRACKS 203 SIGNAL UNIT IDENT PL 521447N 0210836E
WAC NO : BE/OBJ NO: NPIC NO : - 168-A3
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

NPIC IIR IIR042-79 25 JUL 79 SEC CLASS: 14B MSN: 0003P ACCN: S087990

SEVERODVINSK SHIPYARD 402 PRESSURE HULL SECTS UR 643438N 0394832E
WAC NO : BE/OBJ NO: NPIC NO : - 7-A
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

AT LEAST ONE AND POSSIBLY THREE SUBMARINE PRESSURE HULL SECTIONS WERE UNDER THE LATTICE FRAMEWORK BEHIND CONSTRUCTION HALL 3 AT SEVERODVINSK SHIPYARD 402, USSR. ONE HULL SECTION WAS CLEARLY VISIBLE, TURNED ON ITS END, AND HAS A RIBBED FRAMEWORK ON TOP. THIS HULL SECTION, METERS IN DIAMETER AND LONG, WAS FIRST OBSERVED ON. HOWEVER, IMAGE QUALITY PRECLUDED ITS POSITIVE IDENTIFICATION. WHILE MENSURATION ACCURACY DOES NOT PRECLUDE THE POSSIBILITY THAT HULL SECTION MAY BE INTENDED FOR A D-III-CLASS NUCLEAR-POWERED FLEET BALLISTIC MISSILE SUBMARINE (SSBN) HULL, ITS LOCATION UNDER THE LATTICE FRAMEWORK BETWEEN CONSTRUCTION HALL 3 AND FABRICATION BUILDING 2 SUGGESTS THAT IT IS INTENDED FOR THE LARGE SSBN BELIEVED TO BE UNDER CONSTRUCTION IN HALL 3.

25X1
25X1
25X1
25X1

1580
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IIR IIR045-79 30 JUL 79 SEC CLASS: 14D MSN: 0002P ACCN: 5087992 25X1

SARY SHAGAN MTC COMPLEX F ABM SILO IDENT UR 462629N 0725108E
WAC NO : BE/OBJ NO: NPIC NO : 49-B6
IUHS CODE: EPF CAT : 40D COMIREX NO:

25X1
25X1

AN ABM CANISTER WAS IDENTIFIED FOR THE FIRST TIME IN SILO 3B AT SARY-SHAGAN MISSILE TEST CENTER (MTC) LAUNCH COMPLEX F, USSR, ON THE CAPPED CANISTER WAS IN DIAMETER. THE SMALLEST ABM CANISTER IDENTIFIED TO DATE IS THE SH-04 CANISTER, WHICH IS IN DIAMETER. THE ONLY OTHER KNOWN ABM IN RESEARCH AND DEVELOPMENT IS THE SH-08 MISSILE, WHICH HAS NEVER BEEN OBSERVED ENCLOSED IN A CANISTER BUT HAS BEEN OBSERVED PROTRUDING FROM A LAUNCH TUBE/CANISTER AT POSITION 3A. THEREFORE, THE CANISTER IN THE SILO MAY BE FOR THE SH-08 MISSILE.

25X1
25X1
25X1

NPIC IIR 31 JUL 79 SEC CLASS: 14D MSN: 0004P ACCN: 5087993 25X1

NOVOSIBIRSK ICBM RTP SS-20 FIELD TRNG EXER UR 551616N 0830133E
WAC NO : BE/OBJ NO: NPIC NO : - 7-Y2
IUHS CODE: EPF CAT : 40A COMIREX NO:
NOVOSIBIRSK ICBM RTP SS-20 FIELD TRNG EXER UR 551616N 0830133E
WAC NO : BE/OBJ NO: NPIC NO : - 7-Y2
IUHS CODE: EPF CAT : 40B COMIREX NO:

25X1
25X1
25X1
25X1

AN SS-20 FIELD TRAINING EXERCISE WAS OBSERVED AT NOVOSIBIRSK ICBM RAIL-TO-ROAD TRANSFER POINT (RTP), USSR, ON THE EXERCISE CONSISTED OF A COMMAND AND CONTROL UNIT AND ONE POSSIBLE LAUNCH UNIT.

25X1

1581
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Redacted]

25X1

NPIC IIR IIR048-79 01 AUG 79 [Redacted] SEC CLASS: 25B MSN: [Redacted] 0003P

ACCN: S087995 25X1

TOPOLOVGRAD ECM FACILITY PIE DISH ELINT EQUIP BU 415930N B251940E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 251-A1
IDHS CODE: [Redacted] EPF CAT : 25 COMIREX NO: [Redacted]

25X1
25X1

PIE DISH ELINT EQUIPMENT HAS BEEN IDENTIFIED AT TOPOLOVGRAD ECM FACILITY, BULGARIA, ON IMAGERY OF [Redacted]
[Redacted] THIS REPRESENTS THE FIRST IDENTIFICATION OF THE PIE DISH IN BULGARIA AND ONLY THE SECOND
IDENTIFICATION OF THE EQUIPMENT OUTSIDE THE SOVIET UNION.

25X1
25X1

[Large Redacted Area]

25X1

1582
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

NPIC BIIR RCA09-0021-79 JUL 79 [] SEC CLASS: 14B MSN: [] 0005P

ACCN: S087999 25X1

MOTOVSKIY ZALIV MHD GENERATOR SITE

UR 693730N 0315643E

WAC NO : []

BE/OBJ NO: []

NPIC NO : - 63

25X1

IUHS CODE: []

EPF CAT : 30E

COMIREX NO: []

25X1

THIS REPORT DESCRIBES THE MOTOVSKIY GULF MAGNETOHYDRODYNAMIC (MHD) GENERATOR SITE, WHICH IS SITUATED ON THE KOLA PENINSULA IN THE BARENTS SEA, IN THE SOVIET UNION. THIS FACILITY APPEARS TO BE SUITABLE AS AN EXPERIMENTAL SITE FOR BOTH GEOPHYSICAL AND EXTREMELY LOW FREQUENCY COMMUNICATIONS RESEARCH. THE SITE CONTAINS TWO MHD GENERATORS, WHICH COULD TRANSMIT A LARGE PULSE CURRENT INTO THE ROCK STRATA AND INTO THE SEAWATER ON EITHER SIDE OF THE KOLA PENINSULA. THREE ANNOTATED PHOTOGRAPHS ARE ALSO INCLUDED IN THIS REPORT, WHICH IS THE FIRST BASIC REPORT ON THIS TARGET.

25X1

NPIC MCS MCS002-79 JUL 79 [] SEC CLASS: 14 MSN: [] 0056P

ACCN: S088001 25X1

MCS []

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 60A

NPIC NO : -
COMIREX NO:

25X1

1583

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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25X1

DIA IIM 5B1-72740-79 31 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: 5088014 25X1
 KOMSOMOLSK NA AMURE BOMBING RANGE SEARCH UR 5035 N 13702 E
 WAC NO : [] BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

DIA IIM 5B1-72747-79 31 JUL 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5088015 25X1
 KILDIN OSTROV BOMBING RANGE SEARCH UR 6920 N 03412 E
 WAC NO : [] BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72749-79 31 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: 5088017 25X1
 KORSAKOV BOMBING RANGE SEARCH UR 4637 N 14245 E
 WAC NO : [] BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

DIA IIM 5B1-72750-79 31 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: 5088018 25X1
 KRASNODAR BOMBING RANGE SEARCH UR 4455 N 03800 E
 WAC NO : [] BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

DIA IIM 5B1-72712-79 31 JUL 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: 5088019 25X1
 KARANOGAYSKIY BOMBING RANGE UR 441512N 0460511E
 WAC NO : [] BE/OBJ NO: NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72734-79 31 JUL 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: 5088020 25X1

1586
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF



25X1

BLAGOPOLUCHIYA BOMBING RANGE SEARCH

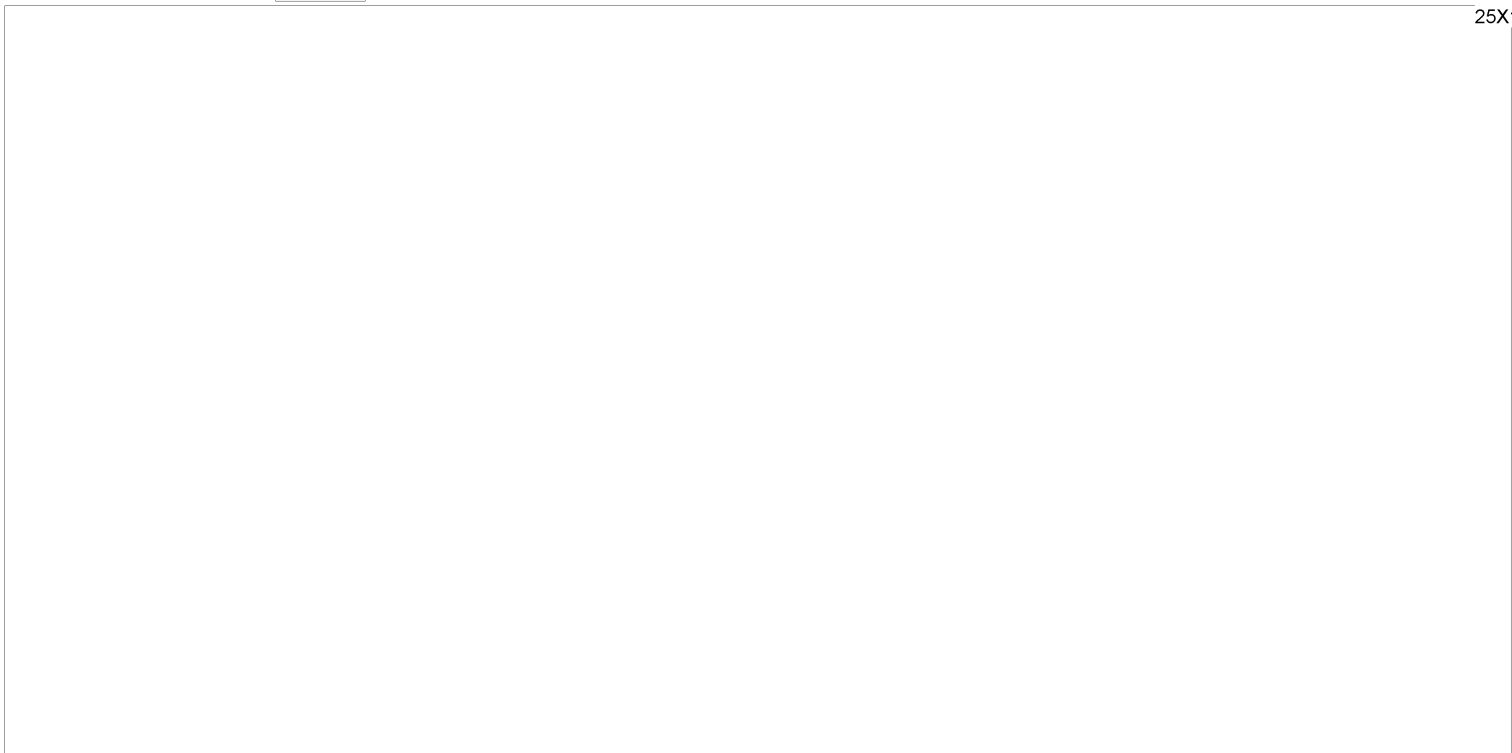
WAC NO :
IUHS CODE:



BE/OBJ NO:
EPF CAT : 05

UR 7530 N 06345 E
NPIC NO : -
COMIREX NO:

25X1



25X1

1587
TOP SECRET CHESS RUFF



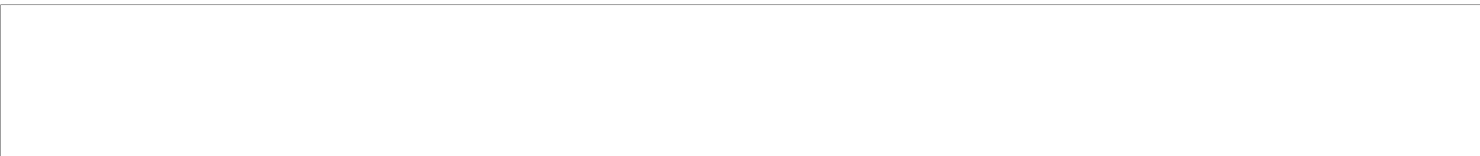
25X1
25X1

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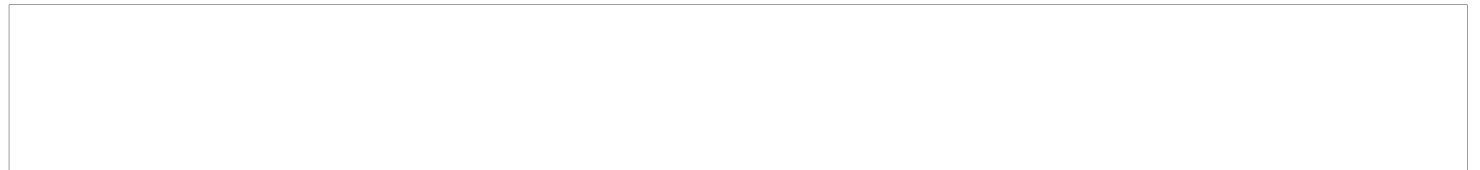


25X1

DIA IIM 5B1-72785-79 03 AUG 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: S088031 25X1
 POPOVILSA AMMUNITION DEPOT SOUTH 501 BU 420737N 0250322E
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 132 25X1/5X1
 IDHS CODE: [REDACTED] EPF CAT : 35F COMIREX NO:

DIA IIM 5B1-72777-79 03 AUG 79 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 0001P ACCN: S088032 25X1
 LIEPAJA BOMBING RANGE SEARCH UR 5631 N 02101 E
 WAC NO : 0152 BE/OBJ NO: [REDACTED] NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 05 COMIREX NO: 25X1

DIA IIM 5B1-72786-79 03 AUG 79 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 0001P ACCN: S088033 25X1
 LIPOVO BOMBING RANGE SEARCH UR 5943 N 02805 E
 WAC NO : 0153 BE/OBJ NO: [REDACTED] NPIC NO : -
 IDHS CODE: [REDACTED] EPF CAT : 05 COMIREX NO: 25X1



25X1

DIA IIM 5B1-72756-79 03 AUG 79 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 0005P ACCN: S088035 25X1
 KERCH/BAGEROVO BOMBING RANGE UR 452630N 0360910E
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 13-D1 25X1
 IDHS CODE: [REDACTED] EPF CAT : 05 COMIREX NO: [REDACTED] 25X1

DIA NOTE [REDACTED] 03 AUG 79 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 0002P ACCN: S088036 25X1

1589
TOP SECRET CHESS RUFF

25X1



25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

DONGUZ ARTILLERY TEST AREA T-72 TANK

WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 35G

UR 513200N 0545640E
NPIC NO : - 11
COMIREX NO: [Redacted]

25X1
25X1

DIA NOTE [Redacted] 03 AUG 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0005P

ACCN: S088037 25X1

CHERNYAKHOVSK ARMY BKS ALB DO-EL-05 ECM SET

WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 35A

UR 543824N 0214808E
NPIC NO : - 17-U
COMIREX NO: [Redacted]

25X1
25X1

CHERNYAKHOVSK ARMY BKS ALB DO-EL-05 ECM SET

WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 25A

UR 543824N 0214808E
NPIC NO : - 17-U
COMIREX NO: [Redacted]

25X1
25X1

THE DO-EL-05 (DONGUZ-ELECTRONICS VEHICLE-5TH VEHICLE SIGHTED) WAS OBSERVED FOR THE FIRST TIME WITH THE AIR DEFENSE JAMMING BATTALION AT CHERNYAKHOVSK ARMY BARRACKS WEST ALB ON IMAGERY OF [Redacted] THE DO-EL-05 IS ONE OF A SERIES OF ECM RELATED VEHICLES WHICH HAS BEEN OBSERVED AT THE DONGUZ ARTILLERY TEST AREA. OF THESE ONLY THE DO-EL-01 APPEARS TO HAVE BEEN DEPLOYED.*

25X1

DIA IIM 5B1-73790-79 06 AUG 79 [Redacted] SEC CLASS: 14 X MSN: [Redacted] 0002P

ACCN: S088038 25X1

ZASMUKY CW EQUIPMENT DEPOT POSS SEARCH

WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 13B

CZ 4957 N 01502 E
NPIC NO : -
COMIREX NO: [Redacted]

25X1

DIA IIM 5B1-72766-79 06 AUG 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0004P

ACCN: S088039 25X1

LITOVKO BOMBING RANGE

WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 05

UR 491755N 1352708E
NPIC NO : -
COMIREX NO: [Redacted]

25X1

DIA IIM 5B1-73791-79 06 AUG 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: S088040 25X1

LOVOZERO BOMBING RANGE SEARCH

WAC NO : [Redacted] BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 05

UR 5943 N 02805 E
NPIC NO : -
COMIREX NO: [Redacted]

25X1

[Redacted]

25X1

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IAR IARA002-79 AUG 79 Z20015-79 SEC CLASS: 05B MSN: 0002P ACCN: S088044

SOVETSK ARMY BARRACKS AL2/HQ BMP VARIANT NEW UR 550508N 0215149E
WAC NO : BE/OBJ NO: NPIC NO : - 69-L
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

A PROBABLE NEW BMP ARMORED FIGHTING VEHICLE VARIANT WAS IDENTIFIED AT SOVETSK HEADQUARTERS GUARDS TANK DIVISION AND ARMY BARRACKS AL-2, USSR, ON IMAGERY OF THE NEW VARIANT LACKS THE TURRET OF THE STANDARD BMP AND HAS A SMALL, UNIDENTIFIED STRUCTURE MOUNTED TO THE LEFT OF THE USUAL TURRET POSITION.

25X1

NPIC IAR IARA001-79 AUG 79 Z20014-79 SEC CLASS: 05B MSN: 0003P ACCN: S088045

CHERNYAKHOVSK ARMY BKS WEST AL8 DO-EL-05 DPL UR 543824N 0214808E
WAC NO : BE/OBJ NO: NPIC NO : - 17-U
IDHS CODE: EPF CAT : 35A COMIREX NO:
CHERNYAKHOVSK ARMY BKS WEST AL8 DO-EL-05 DPL UR 543824N 0214808E
WAC NO : BE/OBJ NO: NPIC NO : - 17-U
IDHS CODE: EPF CAT : 25 COMIREX NO:

25X1
25X1
25X1
25X1

THE FIRST DEPLOYMENT OF THE DO-EL-05 ELECTRONICS COUNTERMEASURES (ECM) SET WAS IDENTIFIED AT CHERNYAKHOVSK ARMY BARRACKS WEST AL-8, USSR, ON IMAGERY OF PREVIOUSLY THIS NEWLY DEVELOPED ECM EQUIPMENT WAS OBSERVED ONLY AT THE DONGUZ ARTILLERY TEST AREA THE DO-EL-05 SET CONSISTS OF A VAN TRUCK WITH A DOME MOUNTED ON THE REAR OF THE VAN BODY AND A TRAILER WHICH APPEARS TO BE SIMILAR TO THE KING PIN ECM JAMMER.

25X1
25X1

NPIC IAR IARA005-79 AUG 79 Z20016-79 SEC CLASS: 05B MSN: 0003P ACCN: S088046

MILITARY, BROVARY RIVER CROSSING VEHICLE UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35E COMIREX NO:

IMAGERY OF HAS PROVIDED THE BEST VIEWS TO DATE OF THE NEW BROVARY RIVER CROSSING VEHICLE

25X1

1591
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

(NPIC INTERIM DESIGNATOR). NINETEEN OF THE NEW VEHICLES WERE OBSERVED WITH AN ENGINEER BRIGADE AT BROVARY ARMY BARRACKS AL-1 [] IN THE KIEV MILITARY DISTRICT, USSR. SEVENTEEN WERE IN THE TRAVEL MODE AND TWO WERE FULLY EXPANDED IN THE OPERATIONAL MODE.

25X1

CIA IRP IS10088J-79 JUL 79 [] SEC CLASS: 25E MSN: 0033P ACCN: S088047 25X1

PLESETSK MTC SS-13 + SS-16 TEST ACTIVITY UR 625746N 0402346E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 27
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1

IN THIS STUDY, IMAGERY SPANNING THE PERIOD OF EARLY DECEMBER 1970 TO LATE AUGUST 1978 WAS USED IN AN ATTEMPT TO ANALYZE THE SIGNIFICANT SS-13- AND SS-X-16- RELATED ACTIVITY OCCURRING AT PLESETSK. THIS REPORT DISCUSSES IN DETAIL THE SS-13 AND SS-X-16 MISSILE RECEIVING AND CHECKOUT FACILITIES, MISSILES HANDLING PROCEDURES, AND MISSILE DELIVERIES, AND THE SIGNIFICANCE OF THE OBSERVED DIFFERENCES IN THESE CHARACTERISTICS OF THE TWO SYSTEMS. A COMPLETE DISCUSSION OF THE SS-13 IS INCLUDED FIRST BECAUSE A REVIEW OF INTELLIGENCE INFORMATION PUBLISHED DURING THE SS-X-16 TEST PROGRAM INDICATES THAT A MORE COMPLETE UNDERSTANDING OF SS-13 MISSILE OPERATIONS AT PLESETSK PUTS A DIFFERENT PRESPECTIVE ON THE EVIDENCE PREVIOUSLY THOUGHT TO REPRESENT A SILO LAUNCH MODE FOR THE SS-X-16. APPENDIX A DESCRIBES IN CHRONOLOGICAL ORDER THE MAJOR ACTIVITIES RELATING TO SS-13 MISSILE HANDLING OPERATIONS OBSERVED IN THE MAIN SUPPORT BASE AT PLESETSK AND STATES ANY SIGNIFICANT ANALYSIS OF THESE ACTIVITIES. IT ALSO LISTS SS-13 AND SS-X-16 LAUNCHES.

CIA BIIR RCS13-0006-79 JUL 79 [] SEC CLASS: 14B MSN: 0038P ACCN: S088048 25X1

INDUSTRY, PETROLEUM REFINERIES RO
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 30B COMIREX NO: []
BRASOV PETROLEUM REFINERY RO 453920N 0253710E
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IDHS CODE: [] EPF CAT : 30B COMIREX NO: []
CIMPINA PETROLEUM REFINERY RO 450752N 0254415E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 175
IDHS CODE: [] EPF CAT : 30B COMIREX NO: []
DARMANESTI PETROLEUM REFINERY RO 462135N 0262628E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 194
IDHS CODE: [] EPF CAT : 30B COMIREX NO: []
GHEORGHE GHEORGHIU DEJ PETROLEUM REFINERY RO 461511N 0264914E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 80
IDHS CODE: [] EPF CAT : 30B COMIREX NO: []
PITESTI PETROLEUM REFINERY RO 444749N 0245600E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 89-B
IDHS CODE: [] EPF CAT : 30B COMIREX NO: []
PLOIESTI PETROLEUM REFINERY BRAZI CREDITUL RO 445233N 0260101E

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25X1

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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WAC NO : []	BE/OBJ NO: []	NPIC NO : - 90-E1	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	25X1
PLOIESTI PETROLEUM REFINERY	COLOMBIA AQUILA	RO 445532N 0260013E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 91-A1	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	
PLOIESTI PETROLEUM REFINERY	CONCORDIA VEGA	RO 445739N 0260132E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 90-E9	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	
PLOIESTI PETROLEUM REFINERY 1		RO 445502N 0260135E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 90-E7	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	
PLOIESTI PETROLEUM REFINERY	TELEAJEN	RO 445639N 0260420E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 90-E8	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	25X1
SUPLACU DE BARCAU PETROLEUM	REFINERY	RO 471625N 0223235E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 248-B	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	
NAVODARI PETROLEUM REFINERY		RO 442042N 0283910E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []	

THE ROMANIAN PETROLEUM REFINING INDUSTRY HAS BEEN EXPANDING RAPIDLY SINCE 1975. BY EARLY 1979, ROMANIA'S 12 OPERATING REFINERIES HAD A COMBINED DESIGN CAPACITY OF ABOUT 28 MILLION METRIC TONS PER YEAR -- ALMOST 50 PERCENT MORE THAN IN 1975. BY 1980, WHEN UNITS NOW UNDER CONSTRUCTION WILL BE COMPLETED, THE CAPACITY WILL BE INCREASED BY AN ADDITIONAL 7 MILLION METRIC TONS PER YEAR. MOST OF THIS INCREASE IN REFINING CAPACITY IS BEING ACHIEVED BY ADDITIONS TO EXISTING REFINERIES RATHER THAN BY CONSTRUCTION OF NEW ONES. ONLY ONE REFINERY HAS COME ONSTREAM IN THE PAST 10 YEARS -- REPORTEDLY IN FEBRUARY 1979 -- AND NO NEW ONES ARE KNOWN TO BE UNDER CONSTRUCTION. ROMANIA'S REFINING CAPACITY EXCEEDED ITS DOMESTIC PETROLEUM PRODUCT CONSUMPTION BY ABOUT 40 PERCENT IN 1975. THE EXPANSION WHICH HAS OCCURRED SINCE THAT TIME HAS BEEN PRIMARILY FOR THE PRODUCTION OF PETROLEUM PRODUCTS FOR THE EXPORT MARKET.

ROMANIA BUILDS SOME OF ITS OWN REFINING UNITS -- SUCH AS CRUDE OIL DISTILLATION UNITS AND POSSIBLY DELAYED COKING UNITS -- BUT RELIES ON IMPORTS, PRIMARILY FROM THE UNITED STATES, FOR THE MORE SOPHISTICATED UNITS SUCH AS CATALYTIC REFORMING, CATALYTIC CRACKING, AND AROMATICS PROCESSING UNITS. BASED ON THE IDENTIFICATION OF THE TYPES OF SECONDARY PROCESSING UNITS IN THE PETROLEUM REFINERIES, IT IS APPARENT THAT ROMANIA IS ATTEMPTING TO MAXIMIZE THE PRODUCTION OF LIGHT FUELS -- SUCH AS KEROSENE, GASOLINE, AND LIGHT DIESEL FUELS -- FROM THE CRUDE OIL PROCESSED.

THIS REPORT PROVIDES A DISCUSSION OF THE DEVELOPMENTS IN THE ROMANIAN PETROLEUM REFINING INDUSTRY. IT INCLUDES A GRAPH SHOWING THE GROWTH OF THE REFINING INDUSTRY, A REFINERY PROCESS FLOW CHART, AND AN ESTIMATE OF THE CRUDE OIL DISTILLATION CAPACITY OF EACH REFINERY. ALSO INCLUDED ARE A PHOTOGRAPH AND A DESCRIPTION WITH A LISTING OF THE MAIN PRODUCTS OF EACH REFINERY.

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NPIC IIR IIR044-79 27 JUL 79 SEC CLASS: 14B MSN: 0004P ACCN: 508805025X1

MIROPOL ARMY BARRACKS AL1 TA-EL-01 SET OPRTNL	UR	500610N 0274140E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 153
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []
MIROPOL ARMY BARRACKS AL1 TA-EL-01 SET OPRTNL	UR	500610N 0274140E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 153
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []

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25X1

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25X1

THE NEW SOVIET TROPOSCATTER RELAY SET, THE TA-EL-01, WAS SEEN IN AN OPERATIONAL CONFIGURATION FOR THE FIRST TIME IN THE SOVIET UNION NEAR MIROPOL ARMY BARRACKS AL-1 ON IMAGERY OF []. THE TA-EL-01 WAS SEEN BEING USED IN A KGB/UPS SIGNAL REGIMENT EXERCISE EAST OF THE INSTALLATION.

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NPIC IPIR [Redacted] R003-79 07 FEB 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0024P ACCN: S0880525X1

IPIR [Redacted] 001/003

WAC NO : BE/OBJ NO: NPIC NO : -

IDHS CODE: EPF CAT : 15A COMIREX NO:

[Redacted Block]

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DIA NOTE [Redacted] 07 AUG 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0002P ACCN: S0880525X1

1597
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

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25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

		BROVARY ARMY BARRACKS AL1 RIVER CROSSING VEHS	UR 502950N 0304430E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 30-C	25X1
		IDHS CODE: [Redacted]	EPF CAT : 35A	COMIREX NO: [Redacted]	25X1
DIA	IIM	5B1-73800-79 08 AUG 79	[Redacted]	SEC CLASS: 14B MSN: [Redacted]	0004P ACCN: S088056 25X1
		POLTAVA SIGNAL EQUIPMENT STGE + RPR DEPOT DS1	UR 493620N 0343158E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 31-A5	25X1
		IDHS CODE: [Redacted]	EPF CAT : 35F	COMIREX NO: [Redacted]	25X1
DIA	IIM	5B1-73798-79 10 AUG 79	[Redacted]	SEC CLASS: 13 MSN: [Redacted]	0001P ACCN: S088057 25X1
		NARVA BOMBING RANGE SEARCH	UR 5930 N 02825 E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -	25X1
		IDHS CODE: [Redacted]	EPF CAT : 05	COMIREX NO:	
DIA	IIM	5B1-72788-79 10 AUG 79	[Redacted]	SEC CLASS: 13 MSN: [Redacted]	0001P ACCN: S088058 25X1
		LUGANSK BOMBING RANGE SEARCH	UR 4834 N 03920 E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -	25X1
		IDHS CODE: [Redacted]	EPF CAT : 05	COMIREX NO:	
DIA	IIM	5B1-72818-79 10 AUG 79	[Redacted]	SEC CLASS: 14B MSN: [Redacted]	0002P ACCN: S088059 25X1
		STANKE DIMITROV MILITARY TRAINING AREA	BU 421810N 0231200E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : - 87-E	25X1
		IDHS CODE: [Redacted]	EPF CAT : 35B	COMIREX NO:	
DIA	IIM	5B1-72829-79 10 AUG 79	[Redacted]	SEC CLASS: 14 MSN: [Redacted]	0003P ACCN: S088060 25X1
		KALININGRAD AVTOKOLONNA 1115	UR 544356N 0203018E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -	25X1
		IDHS CODE: [Redacted]	EPF CAT : 85A	COMIREX NO:	
DIA	IIM	5B1-72814-79 13 AUG 79	[Redacted]	SEC CLASS: 13 MSN: [Redacted]	0001P ACCN: S088061 25X1
		SOLTSY BOMBING RANGE SEARCH	UR 5817 N 03045 E		
		WAC NO : [Redacted]	BE/OBJ NO: [Redacted]	NPIC NO : -	25X1
		IDHS CODE: [Redacted]	EPF CAT : 05	COMIREX NO:	
DIA	IIM	5B1-72726-79 13 AUG 79	[Redacted]	SEC CLASS: 14 MSN: [Redacted]	0003P ACCN: S088062 25X1

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

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TOP SECRET CHESS RUFF

25X1

PROSVET AMMUNITION DEPOT SE DA1

UR 553310N 0650634E

WAC NO : []

BE/OBJ NO: []

NPIC NO : - 4-A

IDHS CODE: []

EPF CAT : 35F

COMIREX NO:

25X1

DIA IIM 5B1-72824-79 13 AUG 79 [] SEC CLASS: 14B MSN: [] 0006P

ACCN: S088063 25X1

GOMEL AVTOKOLONNA 2443

UR 522511N 0305735E

WAC NO : []

BE/OBJ NO: []

NPIC NO : -

IDHS CODE: []

EPF CAT : 85A

COMIREX NO:

25X1

DIA IIM 5B1-72832-79 14 AUG 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: S088064 25X1

KALININGRAD AVTOKOLONNA 1703

UR 544435N 0202848E

WAC NO : []

BE/OBJ NO: []

NPIC NO : -

IDHS CODE: []

EPF CAT : 85A

COMIREX NO:

25X1

DIA IIM 5B1-72819-79 14 AUG 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S088065 25X1

ZUBOVKA BOMBING RANGE SEARCH

UR 6846 N 03235 E

WAC NO : []

BE/OBJ NO: []

NPIC NO : -

IDHS CODE: []

EPF CAT : 05

COMIREX NO:

25X1

DIA IIM 5B1-73797-79 14 AUG 79 [] SEC CLASS: 14 MSN: [] 0004P

ACCN: S088066 25X1

LUMBOVKA ASM/BOMBING RANGE PROB

UR 674858N 0403219E

WAC NO : []

BE/OBJ NO: []

NPIC NO : - 56

IDHS CODE: []

EPF CAT : 40J

COMIREX NO: []

25X1

LUMBOVKA ASM/BOMBING RANGE PROB

UR 674858N 0403219E

WAC NO : []

BE/OBJ NO: []

NPIC NO : - 56

IDHS CODE: []

EPF CAT : 05

COMIREX NO: []

25X1

25X1

DIA IIM 5B1-72825-79 13 AUG 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: S088068 25X1

KALININGRAD AVTOKOLONNA 1114

UR 544251N 0203222E

WAC NO : []

BE/OBJ NO: []

NPIC NO : -

IDHS CODE: []

EPF CAT : 85A

COMIREX NO:

25X1

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NPIC PIR PIR063-79 AUG 79 SEC CLASS: 14B MSN: 0007P ACCN: S088082

NUCLEAR TESTING PROGRAM STATUS APR-JUN 1979 UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 55A COMIREX NO:

1602
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THIS IS THE SECOND IN A CONTINUING SERIES OF REPORTS PRESENTING THE STATUS OF THE VARIOUS SOVIET NUCLEAR WEAPONS TEST SITES AND PEACEFUL NUCLEAR EVENTS (PNE) SITES. THE SITES REVIEWED INCLUDE THE SHAGAN RIVER, DEGELEN MOUNTAIN, AND KONYSTAN TEST AREAS AT THE SEMIPALATINSK PROVING GROUND; THE MATOCHKIN SHAR TEST SITE ON NOVAYA ZEMLYA; AND THE AZGIR TEST SITE. THIS REPORT PRESENTS ACTIVITY OCCURRING AT THESE SITES DURING THE SECOND CALENDAR QUARTER OF 1979, APRIL THROUGH JUNE. THE OVERALL LEVELS OF ACTIVITY AT THE VARIOUS SITES ARE BASED ON COVERAGES FROM [REDACTED] ACQUIRED FROM LATE MARCH THROUGH MID-JUNE. ALL OF THE OTHER IMAGERY USED WAS FROM [REDACTED]

25X1
25X1

NPIC IAR IARA007-79 AUG 79 Z20017-79 SEC CLASS: 05B MSN: 0003P ACCN: S088083

LESZNO SA-6 SUPPORT FACILITY PROB U/C PL 515305N 0163705E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 321-B1
IDHS CODE: [REDACTED] EPF CAT : 40C COMIREX NO:

25X1

A POLISH PROBABLE SA-6 SURFACE-TO-AIR MISSILE SUPPORT FACILITY UNDER CONSTRUCTION WAS NEWLY IDENTIFIED NEAR LESZNO, IN THE SILESIAN MILITARY DISTRICT, POLAND, ON IMAGERY OF [REDACTED] THE INSTALLATION, LESZNO PROBABLE SA-6 SUPPORT FACILITY, WILL PROBABLY HOUSE AN SA-6 REGIMENT, THE FIFTH TO BE DEPLOYED WITH POLISH FORCES.

25X1

NPIC IAR IARA006-79 AUG 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: S088084

25X1

SEMIPALATINSK NWPg DEGELEN 3 U/G TRIPLE TEST UR 494948N 0780238E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 33-K
IDHS CODE: [REDACTED] EPF CAT : 55A COMIREX NO: [REDACTED]
SEMIPALATINSK NWPg DEGELEN 2 U/G TRIPLE TEST UR 494844N 0780734E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 33-E
IDHS CODE: [REDACTED] EPF CAT : 55A COMIREX NO: [REDACTED]
SEMIPALATINSK NWPg DEGELEN 1 U/G TRIPLE TEST UR 494703N 0775945E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 33-C
IDHS CODE: [REDACTED] EPF CAT : 55A COMIREX NO: [REDACTED]

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[REDACTED] INDICATES THAT THE SEISMIC SIGNALS ORIGINATING IN THE DEGELEN MOUNTAIN TEST AREA, SEMIPALATINSK, USSR, ON [REDACTED] WERE CAUSED BY THE SIMULTANEOUS OR NEARLY SIMULTANEOUS DETONATION OF THREE DEVICES APPARENTLY PLACED IN SEPARATE TUNNELS. THE THREE TUNNELS ORIGINATED AT ADITS 2AJ, 2AN, AND 30. THIS WAS ONLY THE SECOND KNOWN TRIPLE NUCLEAR TEST EVER CONDUCTED BY THE SOVIETS.

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NPIC IAR IAR0005-79 AUG 79 SEC CLASS: 25D MSN: 0005P ACC: 508A00R 25X1

MISSILES, PROPELLANT RAIL CARS TYPE D/J/K/L	CH	
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 401	COMIREX NO:
WUCHANG LOCOMOTIVE + RR CAR PLANT PRPLNT CARS	CH 303512N 1141907E	
WAC NO :	BE/OBJ NO:	NPIC NO : - 38-V
IDHS CODE:	EPF CAT : 85B	COMIREX NO:

25X1

25X1

AN ANALYSIS OF SELECTED IMAGERY ACQUIRED SINCE AUGUST 1969 INDICATES THAT THE WUCHANG (WU-CHANG) LOCOMOTIVE AND RAILROAD CAR PLANT IN THE PEOPLE'S REPUBLIC OF CHINA IS INVOLVED IN THE MAINTENANCE, REPAIR, AND POSSIBLY FABRICATION OF TYPES D, J, K, AND L PROPELLANT RAILCARS. TYPES D, K, AND L PROPELLANT RAILCARS HAVE BEEN ASSOCIATED WITH THE CSS-X-4/CSL-2 MISSILE, WHILE THE TYPE J HAS NOT BEEN ASSOCIATED WITH A SPECIFIC SYSTEM.

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[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Block]

25X1

NPIC MEMO [Redacted] 14 AUG 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0002P ACCN: S08809125X1

DOVSK RADIO RELAY STATION UR 530920N 0302650E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 159 25X1
IDHS CODE: [Redacted] EPF CAT : 25D COMIREX NO: [Redacted] 25X1

THIS MEMO REVIEWS [Redacted] AND PROVIDES A CURRENT DESCRIPTION OF THE DOVSK
RADREL STATION. NO CABLE BUNKERS COULD BE IDENTIFIED WITHIN A 10 NAUTICAL MILE RADIUS OF DOVSK.* 25X1

NPIC MEMO [Redacted] 16 AUG 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0001P ACCN: S08809225X1

MAKINSK RADIO RELAY STATION NEW SEARCH UR 5238 N 07025 E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 25X1
IDHS CODE: [Redacted] EPF CAT : 25D COMIREX NO: [Redacted]

NPIC MEMO [Redacted] 17 AUG 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0002P ACCN: S08809325X1

PESKI RADIO RELAY STATION UR 551339N 0384626E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 163-B1 25X1
IDHS CODE: [Redacted] EPF CAT : 25D COMIREX NO: [Redacted]

THIS MEMO REVIEWS [Redacted] TO DETERMINE THE NUMBER, TYPE AND ORIENTATIONS OF
ANTENNAS AT PESKI RADREL STATION.* 25X1

[Redacted]

25X1

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[Redacted]

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DIA BIIR RDA11-0025-78 AUG 79 [] SEC CLASS: 14D MSN: [] 0011P ACCN: S088100 25X1

TUNGHO ARMS PLANT WANPAOTUN SOUTH CH 462021N 1282149E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 226
IDHS CODE: [] EPF CAT : 35G COMIREX NO: []

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF TUNG-HO SMALL ARMS AND AMMUNITION PLANT SOUTH LOCATED IN HEILUNGKIANG PROVINCE IN NORTHEAST PEOPLE'S REPUBLIC OF CHINA (PRC). THIS ROAD SERVED PLANT ENCOMPASSES 52 HECTARES AND CONTAINS 141 BUILDINGS WITH 30,479 SQUARE METERS OF ROOF COVER. IT IS DIVIDED INTO SEVEN FUNCTIONAL AREAS ACCORDING TO THE PRINCIPAL OPERATION OR ACTIVITY BELIEVED TO BE OCCURRING IN EACH. IN ADDITION TO THE PRIMARY CATEGORY NUMBER LISTED IN THE DATA BLOCK, THESE CATEGORIES ARE REPORTED:

25X1

THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, FIVE ANNOTATED PHOTOGRAPHS, AND FOUR TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED IN THIS REPORT.

DIA IIM 5b1-72844-79 16 AUG 79 [] SEC CLASS: 14 MSN: [] 0003P ACCN: S088101 25X1

DZHAMBUL AMMUNITION DEPOT UR 425934N 0713903E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 12-H
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

DIA IIM 5b1-72846-79 16 AUG 79 [] SEC CLASS: 14 MSN: [] 0004P ACCN: S088102 25X1

KOVEL BOMBING RANGE UR 512100N 0250900E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 194

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IDHS CODE: 

EPF CAT : 05

COMIREX NO:

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DIA IIM 5B1-72847-79 20 AUG 79




SEC CLASS: 14


MSN: 

0010P

ACCN: 508810325X1


ARSEN'YEV ARMY BARRACKS AL1

WAC NO : 

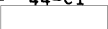
BE/OBJ NO: 

UR 440739N 1331649E

NPIC NO : - 44-C1

IDHS CODE: 

EPF CAT : 35A

COMIREX NO: 

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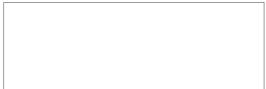
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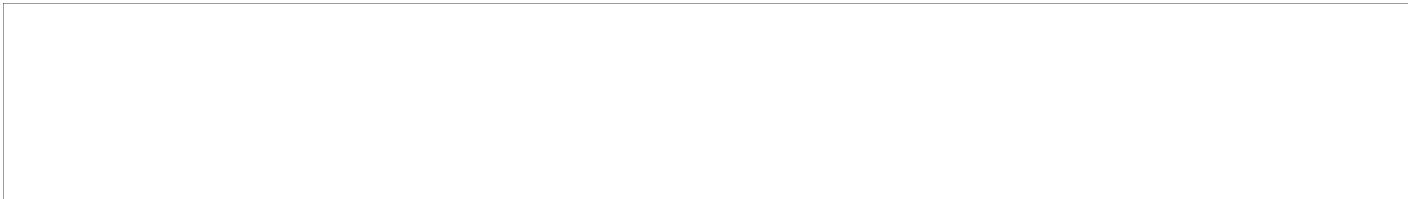
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CIA INFR IS10129J-79 13 AUG 79 [REDACTED] SEC CLASS: 24 MSN: 0017P ACCN: S088112 25X1

MILITARY: 60TH ARMY NANCHING MILITARY REGION CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

THE 60TH ARMY IS LOCATED IN JIANGSU (KIANG-SU) PROVINCE, EAST-CENTRAL NANJING (NAN-CHIANG) MILITARY REGION. THE ARMY HEADQUARTERS AND MAJOR SUPPORT ELEMENTS ARE LOCATED IN PUCHEN (PU-CHEN). THE ARMY HAS THREE SUBORDINATE INFANTRY DIVISIONS HEADQUARTERED AT NANJING (NAN-CHING), QUANJIANG (CHEN-CHIANG), AND SUZHOU (SU-CHOU). THE GARRISON OF THE 180TH INFANTRY DIVISION HEADQUARTERS LOCATED AT QIANJIANG (CHEN-CHIANG) ALSO HOUSES THE HEADQUARTERS AND THREE REGIMENTS OF AN UNIDENTIFIED AAA DIVISION. THE 179TH INFANTRY DIVISION AT NANJING (NAN-CHING) IS A SHOWCASE DIVISION FOR WESTERN OBSERVERS.

CIA INFR IS10135J-79 17 AUG 79 [REDACTED] SEC CLASS: 24 MSN: 0004P ACCN: S088113 25X1

SHUANGCHENGZU MTC ICBM SITE B2 SVC PLATFORMS CH 411828N 1001854E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 1-N
IDHS CODE: [REDACTED] EPF CAT : 40A COMIREX NO: [REDACTED]

RECENT ANALYSIS OF IMAGERY HAS SHOWN THAT THE HEIGHT AND THE CUTOUT DIAMETER OF THE UPPERMOST PAIR OF MISSILE SERVICE PLATFORMS AT LAUNCH PAD B2 AT SHUANGCHENGZU MISSILE TEST CENTER HAVE REMAINED CONSTANT FOR BOTH CSS-X-4 ICBM AND CSL-2 SATELLITE VEHICLE LAUNCHES DURING THE SEPTEMBER 1977 - OCTOBER 1978 PERIOD. THIS INDICATES THAT THE ACCESS POINTS OF THE REENTRY VEHICLE (RV) OF THE ICBMS AND OF THE SINGLE SATELLITE LAUNCHED DURING THIS PERIOD WERE AT THE SAME HEIGHT.

CHANGES WERE MADE TO THE UPPERMOST PLATFORMS IN MID-1974; HOWEVER, THE PLATFORMS WERE LOWERED FROM [REDACTED] METERS ABOVE THE LAUNCH PAD TO [REDACTED] AND THE CUTOUT DIAMETER WAS ENLARGED FROM [REDACTED] METERS BETWEEN MAY AND JUNE OF THAT YEAR. MEASUREMENTS OF THE PLATFORMS AT THE TIMES OF SEVERAL CSS-X-4 AND CSL-2 LAUNCHES AND LAUNCH ATTEMPTS BEFORE AND AFTER THESE CHANGES INDICATE THAT THE DIMENSIONS WERE PROBABLY THE SAME FOR ALL LAUNCHES AND LAUNCH ATTEMPTS BEFORE MID-1974 AND HAVE PROBABLY REMAINED THE SAME FOR ALL LAUNCHES AND ATTEMPTS SINCE THE CHANGES. THIS INDICATES THAT THE LOCATIONS OF THE ACCESS POINTS FOR THE ICBM RVs AND SATELLITES THAT WERE LAUNCHED BEFORE MID-1974 WERE AT THE SAME HEIGHT AND THAT THERE WAS A CHANGE IN THE LOCATION OF THE ACCESS POINTS FOR THE RVs AND SATELLITES LAUNCHED AFTER MID-1974.

CIA INFR IS10128K-79 15 AUG 79 [REDACTED] SEC CLASS: 13 MSN: 0004P ACCN: S088114 25X1

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RIGA SSM TRAINING FACILITY SS-11 GSE UR 571120N 0242026E
WAC NO : BE/OBJ NO: NPIC NO : - 63-61
IUHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1

SS-11 ICBM EQUIPMENT AT THE RIGA SSM LAUNCH TRAINING FACILITY IS BEING USED FOR LIMITED TRAINING IN STANDARD SS-11 GROUND SUPPORT EQUIPMENT. SS-11 EQUIPMENT WAS FIRST IDENTIFIED AT THE RIGA FACILITY IN APRIL 1978. FORMERLY THIS FACILITY WAS ASSOCIATED ONLY WITH SS-4/5 MR/IRBM TRAINING. THE SS-11 TRAINING EQUIPMENT AT RIGA INCLUDES TWO SILO LOADERS, MISSILE TRANSPORTERS AND TWO MISSILE CANISTERS. UNLIKE THE SS-4 FACILITIES AT OSTROV SSM LAUNCHER TRAINING POSITION 2, WHICH WERE MODIFIED TO ACCOMMODATE STANDARD SS-11 TRAINING ACTIVITIES, THE FACILITIES AT RIGA WERE NOT MODIFIED.

CIA INFR IS10106K-79 06 JUL 79 SEC CLASS: 13 MSN: 0005P

ACCN: S088115 25X25X1

ELECTRONICS, TELEMETRY ANTENNA NAV MSL ASSOC UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25C COMIREX NO:

A PROBABLE NEW TYPE OF TELEMETRY ANTENNA HAS BEEN IDENTIFIED AT FIVE FACILITIES WHICH MONITOR SOVIET NAVAL MISSILE TEST PROGRAMS. THE ANTENNA HAS BEEN SEEN AT INSTRUMENTATION SITES 1 AND 2 AT BALAKLAVA NAVAL MISSILE TEST CENTER (BNMTC) AND AT LETNIY NAVALOK TRACKING FACILITY, SEVEROMORSK TRACKING FACILITY AND THE TELEMETRY AND TRACKING FACILITY AT SEVERODVINSK NAVAL MISSILE HANDLING FACILITY, WHICH SUPPORT THE NORTHERN FLEET MISSILE COMPLEX (NFMIC).

AT ALL FIVE LOCATIONS THE ANTENNA IS WITH A TELEMETRY CONTROL BUILDING, AND AT BALAKLAVA, LETNIY NAVALOK AND SEVERODVINSK THE NEW ANTENNAS WERE PROBABLY DIRECT REPLACEMENTS FOR S317B-TYPE TELEMETRY ANTENNAS. THE APPEARANCE OF THE NEW ANTENNAS PROBABLY CONTINUES A SOVIET TREND OF IMPROVING THEIR TELEMETRY RECEPTION CAPABILITY ON MISSILE TEST RANGES, A TREND THAT IS VERY APPARENT AT INSTRUMENTATION FACILITIES SUPPORTING THE NFMIC. THUS THE NEW ANTENNA MAY ALSO APPEAR AT ADDITIONAL SOVIET MISSILE TEST RELATED FACILITIES IN THE FUTURE.

CIA INFR IS10121K-79 30 JUL 79 SEC CLASS: 13 MSN: 0012P

ACCN: S088116 25X1

TYURATAM MTC ICBM SUPPORT FACIL 7 CONST NEW UR 460324N 0625626E
WAC NO : BE/OBJ NO: NPIC NO : - 6-E6
IUHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

EXPANSION OF SUPPORT FACILITY 7 AT THE TYURATAM MISSILE AND SPACE TEST CENTER HAS BEEN UNDERWAY SINCE LATE 1970. THE EXPANSION PROGRAM INCLUDES TWO SUPPORT AREAS -- A SPACECRAFT PROPULSION SERVICE AREA THAT WAS COMPLETED IN APRIL 1975, AND A SECOND BOOSTER/SPACECRAFT ASSEMBLY AND CHECKOUT AREA, WHICH COULD REACH COMPLETION IN 1980. TWO SMALLER BUILDINGS IN THE IMMEDIATE VICINITY OF THE ORIGINAL BOOSTER/SPACECRAFT ASSEMBLY AND CHECKOUT AREA ARE IN THE FOUNDATION STAGE OF CONSTRUCTION.

ANALYSIS OF THE NEW AREAS INDICATES THAT THEIR PRIMARY FUNCTION IS FOR ASSEMBLY, CHECKOUT AND SUPPORT OF SL-12/13 LAUNCH VEHICLES AND THEIR ASSOCIATED SPACECRAFT. HOWEVER, OTHER PROGRAMS BOTH SPACE AND

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WEAPONS RELATED, COULD ALSO BE SUPPORTED BY THE NEW FACILITIES.

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NPIC RLPT STAR0J-79 MAR 79 SEC CLASS: 25 MSN: 0035P ACCN: S08811925X1

GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT	KN
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 10I
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 10I
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT	US
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 10I
	NPIC NO : -
	COMIREX NO:
	NPIC NO : -
	COMIREX NO:
	NPIC NO : -
	COMIREX NO:

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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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ARMY PIM PIM055-78 23 APR 79 [redacted] SEC CLASS: 14E MSN: [redacted] 0004P ACCN: S088122 25X1

WUSHIH RADIO RELAY STATION SOUTH CH 273258N 1165704E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 111
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted]

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A PHYSICAL DESCRIPTION AND AN ANNOTATED PHOTOGRAPH OF WU-SHIH RADREL STA S, PEOPLE'S REPUBLIC OF CHINA. THIS REPORT PROVIDES A PHYSICAL DESCRIPTION OF THE CONTROL AREA AND SUPPORT AREA TO INCLUDE THE NUMBER AND TYPE OF BUILDINGS, NUMBER, SIZE AND ORIENTATION IN DEGREES OF THE ANTENNA OPENINGS AND THE SIZE OF THE DISH ANTENNAS, ELEVATION OF THE FACILITY, AND THE GEOGRAPHIC LOCATION.

ARMY PIM PIM005-79 03 JUL 79 [redacted] SEC CLASS: 14E MSN: [redacted] 0010P ACCN: S088123 25X1

HSIAN/HSIENYANG AIRFIELD DF FACILITY CH 342800N 1084900E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 4-B
IDHS CODE: [redacted] EPF CAT : 25H COMIREX NO: [redacted]

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE HSIAN-HSIEN YANG AIRFIELD DF FACILITY, PEOPLE'S REPUBLIC OF CHINA. INCLUDED IN THIS REPORT ARE SIX ANNOTATED PHOTOGRAPHS DEPICTING THE STATION'S FIX-8, THICK-8 AND HF ANTENNAS ALONG WITH DETAILED MENSURATION OF THE HF ANTENNAS AND THEIR ORIENTATIONS. INFORMATION IS CURRENT AS OF 27 NOVEMBER 1977.

ARMY PIM PIM007-79 13 APR 79 [redacted] SEC CLASS: 14E MSN: [redacted] 0004P ACCN: S088124 25X1

SANYUAN RADIO RELAY STATION NW BUNKERED CH 344244N 1085102E

1614
TOP SECRET CHESS RUFF

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25X1

WAC NO : BE/OBJ NO: NPIC NO : - 40-C
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE SAN-YUAN RADREL STATION NW/BNK, PEOPLE'S REPUBLIC OF CHINA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL STATION. THE PHOTO DISPLAYS THE STATION'S ANTENNA SHELTER OPENINGS ALONG WITH THEIR ORIENTATIONS. INFORMATION IS CURRENT AS OF 22 AUGUST 1978.

ARMY PIM PIM011-79 26 APR 79 SEC CLASS: 14E MSN: 0006P ACCN: 50881225X1

PAECHON RADIO RELAY STATION POSS SIGINT FACIL KN 380005N 1261755E
WAC NO : BE/OBJ NO: NPIC NO : - 61-C2
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE PAECHON POSS RADREL STATION, NORTH KOREA. THE FACILITY IS NOW CONSIDERED TO BE A SIGINT FACILITY RATHER THAN A RADREL STATION. INCLUDED IN THIS REPORT ARE THREE ANNOTATED PHOTOGRAPHS OF THE FACILITY'S SIGINT ANTENNAS, ALONG WITH DETAILED MENSURATION OF THE ANTENNAS AND THEIR ORIENTATIONS. INFORMATION IS CURRENT AS OF 1 MAY 1978.

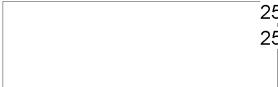


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ARMY PIM PIM015-79 15 JUL 79 SEC CLASS: 14E MSN: 0004P ACCN: 50881225X1

PAECHON RADIO RELAY STATION POSS KN 382800N 1265420E

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TOP SECRET CHESS RUFF [Redacted]

[Redacted]

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WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 25D

NPIC NO : - 45-D1
COMIREX NO: [Redacted]

25X1

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THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE ICHON POSS RADREL STATION, NORTH KOREA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL TERMINAL. THE PHOTO DISPLAYS THE STATION'S ANTENNAS, ALONG WITH THEIR ORIENTATIONS. THE INFORMATION IS CURRENT AS OF 4 FEBRUARY 1979.

[Redacted]

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ARMY PIM PIM017-79 17 JUL 79 [Redacted] SEC CLASS: 14E MSN: 0004P ACCN: S088130 25X1

TANCHON RADIO RELAY STATION POSS

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 25D

KN 403322N 1290040E
NPIC NO : - 118-H
COMIREX NO: [Redacted]

25X1

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THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE TANCHON POSS RADREL STATION, NORTH KOREA. INCLUDED IN THIS REPORT IS AN ANNOTATED PHOTOGRAPH OF THE RADREL STATION. THE PHOTO DISPLAYS THE STATION'S ANTENNAS, ALONG WITH THEIR ORIENTATIONS AND DIMENSIONS. THE INFORMATION IS CURRENT AS OF 10 OCTOBER 1976.

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[Redacted]

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DIA NBRG NDA07-5024-79 21 AUG 79 SEC CLASS: 05A MSN: 0001P ACCN: 5088139

BAGHDAD SAM TRAINING AREA TAJI

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 40C

IZ 333215N 0441600E
NPIC NO : - 1-B7
COMIREX NO: [Redacted]

25X1
25X1

[Redacted]

25X1

1618
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

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[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

[Large Redacted Area]

25X1

CIA INFR IS10122K-79 01 AUG 79 [Redacted] SEC CLASS: 14 MSN: 0010P ACCN: S088153 25X1

KUZNETSK COAL MINING ACTIVITY

WAC NO : [Redacted] BE/OBJ NO: UR 5420 N 08620 E
IDHS CODE: [Redacted] EPF CAT : 30A NPIC NO : -
COMIREX NO:

25X1

THE KUZNETSK COAL BASIN REPORTEDLY PRODUCES ALMOST 30 PERCENT OF ALL THE COAL MINED IN THE SOVIET UNION. THE BASIN OCCUPIES AN AREA OF 64,000 SQUARE KILOMETERS AND CONTAINS 96 OPEN PIT EXCAVATIONS AND 55 RAIL-SERVED HEADWORKS ASSOCIATED WITH UNDERGROUND MINES. THE AMOUNT OF EXCAVATING EQUIPMENT OBSERVED IN THE BASIN HAS INCREASED BY OVER 60 PERCENT SINCE 1971, BUT HIGH CAPACITY EXCAVATING EQUIPMENT, SUCH AS ROTARY EXCAVATORS, HAS NOT BEEN INTRODUCED. MOST OF THE COAL IS TRANSPORTED FROM THE MINES OR NEARBY PROCESSING PLANTS BY RAILROAD, BUT TWO COAL SLURRY PIPELINES AND AN UNDERGROUND COAL GASIFICATION STATION ARE LOCATED IN THE BASIN. NO EVIDENCE OF NEW POWER PLANT CONSTRUCTION OR TRANSMISSION LINES DESIGNED FOR LONG DISTANCE TRANSMISSION OF ELECTRICITY WAS OBSERVED.

1620
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1

AF PAR 592-79 06 JUL 79 [REDACTED] SEC CLASS: 13 MSN: 0058P ACCN: S0881525X1

TUNGHUA SSM COMPLEX

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 40

CH 412833N 1260828E
NPIC NO : - 174-C1
COMIREX NO: [REDACTED]

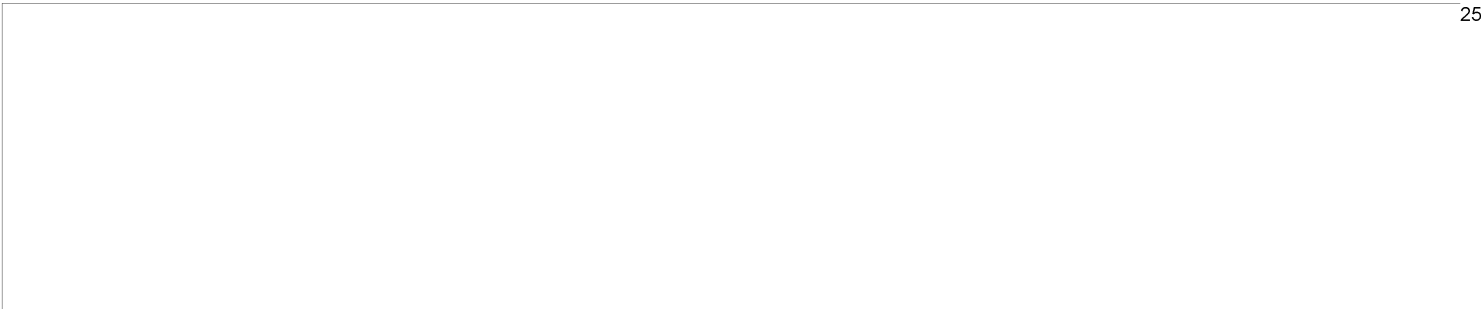
25X1
25X1

THIS REPORT AND DRAWINGS 76E6508/1 AND 72E6548/3 UPDATES PAR 76-534 AND ASSOCIATED DRAWINGS OF THE TONGHUA (T'UNG-HUA) MISSILE LAUNCH COMPLEX. ADDITIONALLY, A HISTORICAL REVIEW OF ALL IMAGERY WAS CONDUCTED TO PROVIDE INFORMATION, NOT PREVIOUSLY REPORTED, ON THE FOLLOWING: A GROUND SUPPORT EQUIPMENT (GSE) STORAGE CAVES (NUMBER, ADIT CONFIGURATION, RELATIVE POSITIONING, PRESENCE OF RAILS/GUIDES AND EVIDENCE OF TUNNELING), PROPELLANT STORAGE CAVES (NUMBER, ADIT CONFIGURATION AND ANALYSIS OF ANY ASSOCIATED TANKAGE), HOUSING/SUPPORT AREAS (NUMBER AND SIZE OF GARAGES, CHECKOUT BUILDINGS, BARRACKS AND DEPENDENT STRUCTURES), UNIQUE STRUCTURES/STRUCTURAL COMPONENTS WITHIN THE COMPLEX, PREVIOUSLY UNREPORTED FACILITIES IN THE TONGHUA AREA THAT APPEAR CAPABLE OF GSE/PROPELLANT STORAGE AND HOUSING/ SUPPORT, AND GSE IDENTIFICATION AND CHRONOLOGY.

ALSO REFERENCED ARE PARS 72-812, 76-527, 78-634, 79-520, AND 72-661, DRAWING 72E1510/5, AND NPIC REPORT



25X1
25X1



AF ENDR C6548-79 20 JUN 79 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 0001P ACCN: S0881525X1

LENINGRAD SPACE TRACKING FACILITY RDO TLMTRY

WAC NO : [REDACTED]
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 25C

UR 594300N 030100E
NPIC NO : - 102-W4
COMIREX NO: [REDACTED]

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

AF PAR 621-79 17 JUL 79 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 0002P ACCN: S0881525X1

1621
TOP SECRET CHESS RUFF



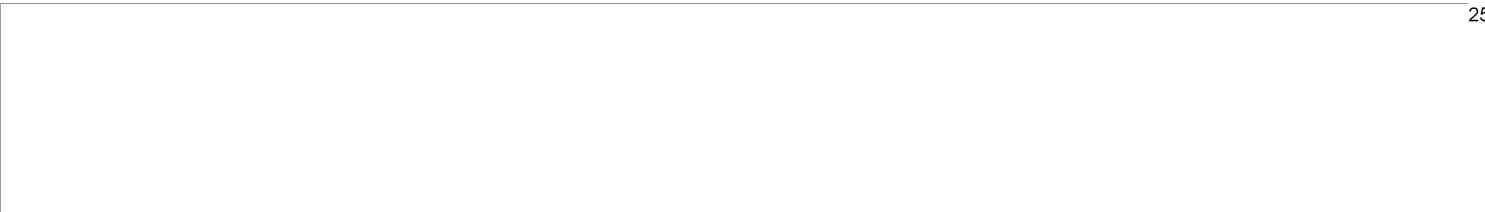
25X1
25X1

TOP SECRET CHESS RUFF

25X1

RAMENSKOYE FLIGHT TEST CTR BISON B M-4 STORES UR 553418N 0380923E
WAC NO : BE/OBJ NO: NPIC NO : - 50
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1



25X1

AF PAR 625-79 09 JUL 79 SEC CLASS: 13 MSN: 0002P ACCN: S088160 25X1

ELECTRONICS, COMMAND POSTS NON-SOVIET PL
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25D COMIREX NO:
ELECTRONICS, COMMAND POSTS NON-SOVIET HU
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25D COMIREX NO:
ELECTRONICS, COMMAND POSTS NON-SOVIET CZ
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25D COMIREX NO:

TEN NON-SOVIET WARSAW PACT COMMAND POSTS WERE ANALYZED TO DETERMINE CABLE CONNECTIONS, IF ANY.*

AF PAR 618-79 12 JUL 79 SEC CLASS: 13 MSN: 0012P ACCN: S088161 25X1

ELECTRONICS, UNIVERSAL RADIO TELEMETRY CPLXS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO:
ELECTRONICS, UNIVERSAL RADIO TELEMETRY CPLXS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25D COMIREX NO:
LENINGRAD SPACE TRACKING FACILITY RDO TLMTRY UR 594300N 0301000E
WAC NO : BE/OBJ NO: NPIC NO : - 102-W4
IDHS CODE: EPF CAT : 25C COMIREX NO:
YENISEYSK ESV TRACKING/MOLNIYA RDO FAC TLMTRY UR 582643N 0921604E
WAC NO : BE/OBJ NO: NPIC NO : - 14

25X1
25X1
25X1

1622
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
KAMENETS PODOLSKIY SPACE TRKG FAC RDO TLMTRY	UR 485110N 0264300F	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 23-B4
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
KOMMOMULSK COMSAT STATION NW RADIO TLMTRY FAC	UR 504140N 1364455E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 13-W4
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
SARY SHAGAN MTC ESV TRKG/MOLNIYA RADIO TLMTRY	UR 455338N 0733727E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 38
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
VORKUTA ESV TRACKING FACILITY RADIO TELEMETRY	UR 673330N 0640941E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 4-K3
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
ULAN UDE ESV TRACKING FACIL RADIO TLMTRY FACS	UR 515223N 1075650E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 18-D
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT AND DRAWINGS 79C6548, 79C6549, 79C6550, 79C6551, 79C6552, 79B6553, AND 79D6554 PROVIDE A CHRONOLOGY OF CONSTRUCTION MILESTONES, MENSURATION OF ANTENNAS, AND SIGNIFICANT BUILDINGS LOCATED AT THE SOVIET UNIVERSAL RADIO TELEMETRY COMPLEXES (URTK). SELECTED SPACE TRACKING FACILITIES WERE SEARCHED FOR EVIDENCE OF URTK CONSTRUCTION.

THIS REPORT SUPERSEDES PARAGRAPHS 4.AA. AND 4.111. OF PAR 74-564 AND PAR 77-556. THE REPORT UPDATES PARAGRAPHS 2.D. (7) (A) 1.2 AND 3 AND 2.D(15) (A)2.7 AND 8 OF PAR 78-535. MINOR DISCREPANCIES NOTED IN THE CHRONOLOGY OF THE URTKS LOCATED AT LENINGRAD AND YENISEYSK IN PAR 78-535 HAVE BEEN CORRECTED AND ARE REFLECTED IN THIS REPORT.

25X1

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR D6554-79 20 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S088163 25X1

ULAN UDE ESV TRACKING FACILITY RADIO TLMTRY UR 515223N 1075650E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18-D 25X1
IUHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

AF ENDR C6550-79 20 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S088164 25X1

KAMENETS PODOLSKIY SPACE TRKG FAC RDO TLMTRY UR 485110N 0264300E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 23-B4 25X1
IUHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

AF ENDR C6549-79 20 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S088165 25X1

YENISEYSK ESV TRACKING/MOLNIYA FAC RDO TLMTRY UR 582643N 0921604E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 14 25X1
IUHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

AF ENDR C6552-79 20 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S088166 25X1

SARY SHAGAN MTC ESV TRKG/MOLNIYA RADIO TLMTRY UR 455338N 0733727E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 38 25X1

1624
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted]

25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

AF ENDR C6551-79 20 JUN 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: 508816725X1

KOMSOMOLSK COMSAT STATION NW RADIO TLMTRY FAC UR 504140N 1364455E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 13-W4
IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

AF ENDR B6553-79 20 JUN 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: 508816#25X1

VORKUTA ESV TRACKING FACILITY RADIO TELEMETRY UR 673330N 0640941E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 4-K3
IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-618.*

[Redacted]

25X1

AF ENDR D6519-1-78 06 JUN 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: 508817025X1

KIYEV AIRFRAME PLANT 473 ANTONOV OKB UR 502752N 0302329E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 29-D
IDHS CODE: [Redacted] EPF CAT : 05G COMIREX NO: [Redacted]

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 78-601 AND 79-616.*

[Redacted]

25X1

1625
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR E1013-79 03 JUL 79 SEC CLASS: 04 MSN: 0001P ACCN: S088172

AIRCRAFT, FARMER G CH

WAC NO : BE/OBJ NO: NPIC NO : -

IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

DIA NBRG NDA07-5023-79 21 AUG 79 SEC CLASS: 05A MSN: 0002P ACCN: S088174

AL QUTAYTAH ARMY BARRACKS/TRAINING CENTER HQ SY 334442N 0363615E

WAC NO : BE/OBJ NO: NPIC NO : - 127-A

IDHS CODE: EPF CAT : 35A COMIREX NO:

AL QUTAYTAH ARMY BARRACKS/TRAINING CENTER HQ SY 334442N 0363615E

WAC NO : BE/OBJ NO: NPIC NO : - 127-A

IDHS CODE: EPF CAT : 35B COMIREX NO:

25X1

25X1

25X1

25X1

DIA NBRG NDA07-5044-79 27 AUG 79 SEC CLASS: 05G MSN: 0001P ACCN: S088175

JHELUM MILITARY BARRACKS + HEADQUARTERS DIV PK 325542N 0734255E

WAC NO : BE/OBJ NO: NPIC NO : - 130-B

IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5045-79 27 AUG 79 SEC CLASS: 05G MSN: 0001P ACCN: S088176

MANDALGOVI ARMY BARRACKS AL1 MG 454400N 1061750E

WAC NO : BE/OBJ NO: NPIC NO : - 3-A

IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF [redacted]

[redacted]

25X1

DIA	NBRG	NDA07-5093-79	27 AUG 79	SEC CLASS: 05	MSN:	0001P	ACCN: 5088177
		MARCALI ARMY BARRACKS HUNYADI JANOS 1		HU	463500N 0172450E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO	: - 85-A		25X1
		IDHS CODE: [redacted]	EPF CAT : 35A	COMIREX NO:	[redacted]		25X1
DIA	NBRG	NDA07-5094-79	27 AUG 79	SEC CLASS: 05B	MSN:	0001P	ACCN: 5088178
		GYOR ARMY BARRACKS DOBI ISTVAN 25		HU	474233N 0174103E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO	: - 22-K		25X1
		IDHS CODE: [redacted]	EPF CAT : 35A	COMIREX NO:	[redacted]		25X1
DIA	NBRG	NDA07-5025-79	27 AUG 79	SEC CLASS: 05B	MSN:	0001P	ACCN: 5088179
		NOVOSIBIRSK ARMY BARRACKS NORTH AL7		UR	550740N 0825440E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO	: - 7-F5		25X1
		IDHS CODE: [redacted]	EPF CAT : 35A	COMIREX NO:	[redacted]		25X1
DIA	NBRG	NDA07-5075-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: 5088180
		NANCHANG MILITARY AREA		CH	2840 N 11553 E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO	: -		25X1
		IDHS CODE: [redacted]	EPF CAT : 35	COMIREX NO:	[redacted]		25X1
DIA	NBRG	NDA07-5076-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: 5088181
		NANCHANG ARMY BARRACKS AL7 + HQ INFANTRY DIV		CH	283621N 1155419E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO	: - 25-J		25X1
		IDHS CODE: [redacted]	EPF CAT : 35A	COMIREX NO:	[redacted]		25X1
DIA	NBRG	NDA07-5077-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: 5088182
		NANCHANG INFANTRY SCHOOL		CH	284017N 1154701E		
		WAC NO : [redacted]	BE/OBJ NO: [redacted]	NPIC NO	: - 25-E1		25X1
		IDHS CODE: [redacted]	EPF CAT : 35B	COMIREX NO:	[redacted]		25X1

[Large redacted area]

1627
TOP SECRET CHESS RUFF [redacted]

[redacted]

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Redacted]

25X1

DIA IIM 5B1-72894-79 27 AUG 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: S088185 25X1

PSKOV BOMBING RANGE/SIMULATED AIRFIELD SEARCH UR 5750 N 02820 E
WAC NO : [Redacted] BE/OBJ NO: NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72893-79 27 AUG 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: S088186 25X1

PROKOFYEVA OSTROV BOMB RANGE/SIMUL AFLD SRCH UR 5303 N 13823 E
WAC NO : [Redacted] BE/OBJ NO: NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72899-79 27 AUG 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: S088187 25X1

RUGUI BOMBING RANGE/SIMULATED AIRFIELD SEARCH UR 5930 N 03255 E
WAC NO : [Redacted] BE/OBJ NO: NPIC NO : -
IDHS CODE: [Redacted] EPF CAT : 05 COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5B1-72828-79 24 AUG 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0004P

ACCN: S088190 25X25X1

1628
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

MOGILEV DUBNO BOMBING RANGE + SIMULATED AFLD UR 534209N 0293357E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5B1-72871-79 24 AUG 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088192 25X1

NIKOLAYEV BOMBING RANGE/SIMULATED AFLD SEARCH UR 4658 N 03200 E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72883-79 24 AUG 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088193 25X1

NIKULINO BOMBING RANGE/SIMULATED AFLD SEARCH UR 5730 N 03515 E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

DIA IIM 5B1-72858-79 23 AUG 79 SEC CLASS: 14B MSN: 0002P

ACCN: S088194 25X1

KURGAN MEDICINAL PREPARATIONS PLANT UR 552409N 0651257E
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1

DIA IIM 5B1-72860-79 23 AUG 79 SEC CLASS: 14 MSN: 0003P

ACCN: S088195 25X1

GUDAUTA AIRFIELD FLAGON F SU-15 AA-8 ARMED UR 430607N 0403455E
WAC NO : BE/OBJ NO: NPIC NO : - 4
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

GUDAUTA AIRFIELD FLAGON F SU-15 AA-8 ARMED UR 430607N 0403455E
WAC NO : BE/OBJ NO: NPIC NO : - 4
IDHS CODE: EPF CAT : 40J COMIREX NO:

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

DIA	NBRG	NDA07-5029-79	27 AUG 79	SEC CLASS: 05A	MSN:	0002P	ACCN: S088197
		BAGHDAD MILITARY BARRACKS/HQ	BRGD/DPO/SCHOOL	IZ	333140N 0441620E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	- 1-B2		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
		BAGHDAD MILITARY BARRACKS/HQ	BRGD/DPO/SCHOOL	IZ	333140N 0441620E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	- 1-B2		25X1
		IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5078-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088198
		PUCHEN MILITARY AREA 1		CH	3209 N 11841 E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	-		25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO:			
DIA	NBRG	NDA07-5079-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088199
		PUCHEN ARMY BARRACKS AL1 + HEADQUARTERS		CH	321023N 1184000E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	- 17-J		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5080-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088200
		NANCHING MILITARY AREA 1		CH	3203 N 11847 E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	-		25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO:			
DIA	NBRG	NDA07-5081-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088201
		NANCHING ARMY BARRACKS AL14 + HQ INFANTRY DIV		CH	320323N 1185408E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	- 17-M		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5082-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088202
		NANCHING ARMY BARRACKS AL15		CH	320436N 1185599E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	- 17-N		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5083-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088203
		PUKOUCHAN ARMY BARRACKS NE AL2		CH	315640N 1185509E		
		WAC NO :	BE/OBJ NO: []	NPIC NO :	- 32-E		25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []						25X1/5X1
DIA	NBRG	NDA07-5084-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088204	
	NANCHING ARMY BARRACKS AL21			CH	315443N 1185206E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	- 32-F				25X1
	IDHS CODE:	[]	EPF CAT : 35A	COMIREX NO:	[]				25X1
DIA	NBRG	NDA07-5085-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088205	
	CHENCHIANG MILITARY AREA 1			CH	3213 N 11926 E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	-				25X1
	IDHS CODE:	[]	EPF CAT : 35	COMIREX NO:	[]				
DIA	NBRG	NDA07-5086-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088206	
	CHENCHIANG ARMY BARRACKS AL2 + HQ INF/AAA DIV			CH	320431N 1191724E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	- 2-C				25X1
	IDHS CODE:	[]	EPF CAT : 35A	COMIREX NO:	[]				25X1
DIA	NBRG	NDA07-5087-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088207	
	CHENCHIANG ARMY BARRACKS SW AL1			CH	320855N 1192038E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	- 2-D				25X1
	IDHS CODE:	[]	EPF CAT : 35A	COMIREX NO:	[]				25X1
DIA	NBRG	NDA07-5088-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088208	
	SUCHOU MILITARY AREA 1			CH	3118 N 12037 E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	-				25X1
	IDHS CODE:	[]	EPF CAT : 35	COMIREX NO:	[]				
DIA	NBRG	NDA07-5089-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088209	
	SUCHOU ARMY BARRACKS AL1 + HQ INFANTRY DIV			CH	311835N 1203538E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	- 42-C1				25X1
	IDHS CODE:	[]	EPF CAT : 35A	COMIREX NO:	[]				25X1
DIA	NBRG	NDA07-5090-79	27 AUG 79	SEC CLASS: 05G	MSN:	0001P		ACCN: 5088210	
	MUTU ARMY BARRACKS WEST AL2			CH	311626N 1202252E				
	WAC NO :	[]	BE/OBJ NO: []	NPIC NO :	- 42-D				25X1
	IDHS CODE:	[]	EPF CAT : 35A	COMIREX NO:	[]				25X1

TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

DIA NBRG NDA07-5091-79 27 AUG 79

SEC CLASS: 05G MSN: 0001P

ACCN: S088211

MUTU ARMY BARRACKS NW AL1

CH 311711N 1202833E

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35A

NPIC NO : - 42-C
COMIREX NO: [Redacted]

25X1
25X1

DIA NBRG NDA07-5092-79 27 AUG 79

SEC CLASS: 05G MSN: 0001P

ACCN: S088212

MUTU MILITARY TRAINING AREA

CH 311425N 1203315E

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35A

NPIC NO : - 42-E1
COMIREX NO:

25X1

25X1

[Large Redacted Area]

1632
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Redacted]

25X1

NPIC MEMO [Redacted] 27 AUG 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0002P

ACCN: S088223

25X1

KRUTOYARONKA RADIO RELAY STATION
WAC NO : [Redacted] BE/OBJ NO: [Redacted] UR 502645N 0320210E
IDHS CODE: [Redacted] EPF CAT : 25D NPIC NO : - 216
COMIREX NO:

25X1

THIS MEMO DESCRIBES KRUTOYAROVKA RADIO-RELAY STATION. LATEST IMAGERY USED WAS [Redacted]

25X1
25X1

[Redacted]

25X1

NPIC IAR IARAG16-79 AUG 79 Z20018-79 SEC CLASS: 05B MSN: 0002P

ACCN: S088226

KOTOVSK SAM SUPPORT FAC TWIN PAN RDO RELAY BN UR 474056N 0300018E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 4-E
IDHS CODE: [Redacted] EPF CAT : 40C COMIREX NO: [Redacted]
KOTOVSK SAM SUPPORT FAC TWIN PAN RDO RELAY BN UR 474056N 0300018E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 4-E
IDHS CODE: [Redacted] EPF CAT : 25D COMIREX NO: [Redacted]

25X1
25X1

25X1
25X1

1634
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

THE FIRST COMPLETE TWIN PAN TROPOSCATTER RADIO RELAY BATTALION IDENTIFIED IN THE USSR WAS SEEN AT THE INACTIVE KOVOTSK SAM SITE B11-2 [REDACTED] IN ADDITION, A RESERVE SIGNAL EQUIPMENT STORAGE DEPOT WAS ALSO IDENTIFIED.

25X1

NPIC IAR IAR0010-79 AUG 79 [REDACTED] SEC CLASS: 25D MSN: 0006P ACCN: S088227 25X1

AIRFIELDS, AIRBORNE TRAINING WUHAN MR CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 05 COMIREX NO:

THE 15TH AIRBORNE ARMY IN THE WUHAN MILITARY REGION IS THE ONLY AIRBORNE ARMY IN THE PEOPLE'S REPUBLIC CHINA (PRC). EXTENSIVE AIRBORNE TRAINING CONDUCTED BY THE ARMY WAS OBSERVED ON [REDACTED] DURING THE SPRING OF 1979. EACH OF THE ARMY'S THREE SUBORDINATE AIRBORNE DIVISIONS WAS SEEN PARTICIPATING IN VARIOUS AIRBORNE-RELATED ACTIVITIES.

25X1

THESE ACTIVITIES CONSISTED OF PARACHUTE PACKING, DROP ZONE ESTABLISHMENT, AIRBORNE-RELATED PREPARATIONS AT AIRFIELDS, AND DEPLOYMENT OF LIGHT TRANSPORT AIRCRAFT TO NEARBY AIRFIELDS.

SIMILAR AIRBORNE ACTIVITY ALSO OCCURRED WITHIN EACH DIVISION DURING THE SPRING OF 1978, AN INDICATION OF THE PROBABLE EXISTENCE OF AN ANNUAL AIRBORNE TRAINING CYCLE.

NPIC IAR IARA017-79 AUG 79 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 0002P ACCN: S088228 25X1

LATUNG CRUISE MISSILE DEPOT SOUTH PROG U/C CH 244430N 1093350E
WAC NO : BE/OBJ NO: NPIC NO : - 66-A2
IUHS CODE: [REDACTED] EPF CAT : 40K COMIREX NO:

25X1

A NEW PROBABLE CRUISE MISSILE DEPOT, LADONG (LA-TUJNG) PROBABLE CRUISE MISSILE DEPOT SOUTH, WAS IDENTIFIED UNDER CONSTRUCTION ON IMAGERY OF [REDACTED] 2.8 NAUTICAL MILES SOUTH OF LADONG IN THE SOUTHERN PORTION OF THE PEOPLE'S REPUBLIC OF CHINA.

25X1

CIA IRP IS10119K-79 AUG 79 [REDACTED] SEC CLASS: 14E MSN: 0012P ACCN: S088229 25X1

SHIPS, HAN CLASS SSN CH
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:

A PHOTOGRAPHICALLY DERIVED DIMENSIONAL AND CONFIGURATIONAL ANALYSIS OF THE TWO CHINESE HAN-CLASS NUCLEAR-POWERED ATTACK SUBMARINES (SSNs) REVEALED THAT THEY HAVE THE FOLLOWING CHARACTERISTICS: AN OVERALL LENGTH OF 96 METERS AND A MAXIMUM BEAM OF 10 METERS. THE OUTER HULL IS A STREAMLINED SHAPE SPLIT AT THE POINT OF MAXIMUM SECTION BY A 48-METER-LONG PARALLEL MIDBODY, BUT IT IS NOT A TRUE BODY OF REVOLUTION; SAIL-MOUNTED FORWARD DIVING PLANES WITH A SPAN OF 10 METERS AND STERN HORIZONTAL STABILIZERS WITH A SPAN OF 13 METERS; AN UPPER RUDDER WITH A HEIGHT OF [REDACTED]. (THE LOWER RUDDER HAS NEVER BEEN SEEN AND OIA CANNOT DETERMINE ITS SIZE. HOWEVER, OIA'S ANALYSIS DOES INDICATE THAT THE FORWARD EDGES OF BOTH THE UPPER AND LOWER RUDDERS JOIN THE HULL AT THE SAME DISTANCE FROM THE STERN OF THE SUBMARINE.); AND

25X1

1635
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

A SINGLE CENTERLINE-MOUNTED PROPELLER, PROBABLY FIVE-BLADED, WITH A DIAMETER OF 4 METERS. IN ADDITION, ANALYSIS OF THE CRADLE ARRANGEMENT SEEN UNDER THE HAN-CLASS SSN AND ENHANCED IMAGERY OF ITS OPEN REACTOR ACCESS AREA INDICATE THAT THE SUBMARINE IS POWERED BY A SINGLE CENTERLINE-MOUNTED REACTOR.

25X1

DIA BIIR RDA11-0023-78 AUG 79 SEC CLASS: 14B MSN: 0013P

ACCN: 5088232 25X1

FUZFogyartelep CHEMICAL PLANT NITROKEMIA HU 470456N 0180148E
WAC NO : BE/OBJ NO: NPIC NO : - 3
IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1
25X1

THIS IS A DETAILED IMAGERY-DERIVED ANALYSIS OF FUZFogyartelep CHEMICAL PLANT NITROKEMIA, HUNGARY. THE PLANT CONTAINS A CHLORINE PRODUCTION AREA, A BARRACKS AREA, A HOUSING AREA, A MISCELLANEOUS PRODUCTS PRODUCTION/STORAGE AREA, AND A BALLISTICS TEST AREA. THE INSTALLATION ENCOMPASSES AN AREA OF APPROXIMATELY 375 HECTARES AND CONTAINS 591 BUILDINGS. THE PLANT IS REPORTED TO PRODUCE CHLORINE AND CHLORINE-BASED AND/OR DERIVED COMPOUNDS, PESTICIDES, BOTH ORGANIC AND INORGANIC CHEMICALS, INDUSTRIAL EXPLOSIVES, SMALL ARMS AMMUNITION, AND PAINTS AND VARNISHES.

THE REPORT INCLUDES A LOCATION MAP, FOUR LINE DRAWINGS, AND A PHOTOGRAPH OF THE PLANT. THE DESCRIPTIONS OF THE INSTALLATION AND EACH FUNCTIONAL AREA ARE SUPPLEMENTED BY TABLES CONTAINING DIMENSIONAL DATA. A REFERENCE DATA LIST FURNISHES MAP, IMAGERY AND DOCUMENTARY SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC IS INCLUDED.

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1636
TOP SECRET CHESS RUFF

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC MCS MCS003-79 AUG 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0130P ACCN: 598823625X1

MCS [Redacted]
WAC NO :
IDHS CODE:

RE/OBJ NO: NPIC NO : -
EPF CAT : 60A COMIREX NO:

25X1

1637
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

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[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

[Redacted]

25X1

DIA IIM 5b3-72908-79 30 AUG 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0002P ACCN: S088258 25X1

PRIMORSKIY HELIPORT HORMONE MODIF KA-25 UR 450750N 0353130E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 7-B1 25X1
IUHS CODE: [Redacted] EPF CAT : 05 COMIREX NO: [Redacted] 25X1

DIA IIM 5B1-72874-79 29 AUG 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0004P ACCN: S088259 25X1

PAVLOVSAYA SLOBODA MILITARY VEH STORAGE DPO 1 UR 554836N 0370630E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 25X1
IUHS CODE: [Redacted] EPF CAT : 35F COMIREX NO: [Redacted]

[Redacted]

25X1

1642
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Redacted]

25X1

DIA IIM 5B1-73142-79 07 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S088264 25X1
 SALDUS BOMBING RANGE SEARCH UR 5637 N 02235 E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 25X1
 ICHS CODE: [Redacted] EPF CAT : 05 COMIREX NO: [Redacted]

[Redacted]

25X1

DIA IIM 5B3-73152-79 07 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S088266 25X1
 RYBINSK AIRFIELD RE UR 580613N 0385537E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 52-B 25X1
 ICHS CODE: [Redacted] EPF CAT : 05A COMIREX NO: [Redacted] 25X1

DIA IIM 5B3-73155-79 07 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S088267 25X1
 VYBORO AIRFIELD UR 604430N 0283730E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 39-B1 25X1
 ICHS CODE: [Redacted] EPF CAT : 05A COMIREX NO: [Redacted]

NPIC MEMO [Redacted] 07 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S088268 25X1

1643
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

PIRYATIN COMMUNICATIONS CBL BKR/SCAR/STA SRCH UR 501252N 0323235E
WAC NO : 0233 BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

CIA BIIR RCS13-0009-79 AUG 79 SEC CLASS: 14B MSN: 0016P ACCN: S088271 25X1

INDUSTRY, PETROLEUM REFINERIES

WAC NO : BE/OBJ NO: AL
IDHS CODE: EPF CAT : 30B NPIC NO : -
BALLESH PETROLEUM REFINERY COMIREX NO:
WAC NO : BE/OBJ NO: AL 403615N 0194535E
IDHS CODE: EPF CAT : 30B NPIC NO : - 288
CERRIK PETROLEUM REFINERY COMIREX NO:
WAC NO : BE/OBJ NO: AL 410216N 0195810E
IDHS CODE: EPF CAT : 30B NPIC NO : - 12
FIER PETROLEUM REFINERY COMIREX NO:
WAC NO : BE/OBJ NO: AL 404220N 0193306F
IDHS CODE: EPF CAT : 30B NPIC NO : - 241
STALIN PETROLEUM REFINERY COMIREX NO:
WAC NO : BE/OBJ NO: AL 404817N 0195435E
IDHS CODE: EPF CAT : 30B NPIC NO : - 43
COMIREX NO:

25X1

25X1

25X1

225X1

THE ALBANIAN PETROLEUM REFINING INDUSTRY CONSISTS OF THREE SMALL OLD REFINERIES AND ONE LARGER MORE MODERN REFINERY, WHICH CAME ONSTREAM IN 1978. THE TOTAL CRUDE OIL DISTILLATION CAPACITY OF THE THREE OLDER REFINERIES IS ESTIMATED FROM PHOTOGRAPHY TO BE 850,000 METRIC TONS PER YEAR AND THAT OF THE NEWEST, WHICH WAS BUILT WITH CHINESE AID, IS REPORTED TO BE 1,000,000 METRIC TONS PER YEAR. THE ADDITIONAL CAPACITY RESULTING FROM THE STARTUP OF THE NEW REFINERY PROVIDES ALBANIA, FOR THE FIRST TIME, WITH SUFFICIENT DISTILLATION CAPACITY TO PROCESS NEARLY ALL OF ITS DOMESTICALLY PRODUCED CRUDE OIL.

THE THREE OLDER ALBANIAN PETROLEUM REFINERIES -- AT CERRIK, FIER, AND STALIN -- PRIMARILY PRODUCE GASOLINE, KEROSENE, AND FUEL OILS. THESE REFINERIES HAVE FEW TREATING FACILITIES AND THEIR PRODUCTS ARE

1644
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CRESS RUFF

25X1

UNDOUBTEDLY OF LOW QUALITY. THE NEWEST REFINERY IS AT BALLESH. TECHNOLOGICALLY MUCH MORE SOPHISTICATED THAN THE OLDER ALBANIAN REFINERIES, THE BALLESH REFINERY GIVES ALBANIA THE CAPABILITY TO PRODUCE MUCH HIGHER-GRADE PRODUCTS, SUCH AS HIGH-OCTANE GASOLINE AND JET FUEL. WITH THE WITHDRAWAL OF CHINESE AID IN 1978, HOWEVER, ALBANIA MAY HAVE PROBLEMS OPERATING AND MAINTAINING THIS REFINERY.

THIS REPORT DISCUSSES THE STATUS OF THE ALBANIAN PETROLEUM REFINING INDUSTRY AND BRIEFLY OUTLINES THE DEVELOPMENT OF THE INDUSTRY SINCE THE EARLY 1960S. THE REPORT INCLUDES A CHART SHOWING THE RELATIVE CRUDE OIL DISTILLATION CHARGE CAPACITY OF EACH OF ALBANIA'S REFINERIES, A SIMPLIFIED FLOW DIAGRAM OF PROCESSING AT ALBANIAN PETROLEUM REFINERIES, A TABLE LISTING PROCESSING EQUIPMENT IN ALBANIAN REFINERIES, A LOCATOR MAP, AND PHOTOS AND DESCRIPTIONS OF EACH REFINERY.

CIA IRP 1S10124J-79 AUG 79 [] SEC CLASS: 25E MSN: 0027P ACCN: 5088273 25X1

SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS CH 410800N 1001500E
WAC NO : [] RE/OBJ NO: [] NPIC NO : - 1
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
SHUANGCHENG TZU MTC ICBM/SAT LAUNCH INDICATORS CH 410800N 1001500E
WAC NO : [] RE/OBJ NO: [] NPIC NO : - 1
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X1
25X1
25X1
25X1

ANALYSIS OF IMAGERY OF THE SHUANGCHENGZI (SHUANG-CHENG-TZU) MISSILE TEST CENTER BOTH BEFORE AND AFTER THE EARTH SATELLITE AND INTERCONTINENTAL BALLISTIC MISSILE (ICBM) LAUNCHES THAT HAVE OCCURRED AT LAUNCH COMPLEX B DURING THE PAST EIGHT YEARS HAS REVEALED THAT CERTAIN SUPPORT PREPARATIONS RELATED TO THESE LAUNCHES CAN BE USED IN MAKING USEFUL PREDICTIONS ABOUT FUTURE SATELLITE AND ICBM LAUNCHES. IT WAS FOUND THAT CONSISTENT DEPLOYMENT PATTERNS OF THE MOBILE ELECTRONICS UNITS AND OPTICAL INSTRUMENT SHELTERS WERE USED TO SUPPORT THE 12 EARTH SATELLITE AND SEVEN ICBM LAUNCHES OR LAUNCH ATTEMPTS FROM COMPLEX B DURING THIS TIME PERIOD. SPECIFICALLY, THE PRESENCE AND ORIENTATION OF A MOBILE ELECTRONICS UNIT AT NEARBY COMPLEX A AND THE POSITION OF A MOVABLE OPTICAL ALIGNMENT SHELTER AT COMPLEX B WERE FOUND TO BE THE BEST INDICATORS OF THE TYPE AND DIRECTION OF LAUNCH FROM COMPLEX B. IN ADDITION, THE POSITION OF THE MOVABLE OPTICAL ALIGNMENT SHELTER WAS FOUND TO BE AN INDICATOR OF WHETHER A SATELLITE LAUNCH WOULD BE FOR PHOTINT OR ELINT RECONNAISSANCE.

NPIC IAR IAKA021-79 SEP 79 [] SEC CLASS: 14B MSN: [] 0003P ACCN: 5088274 25X1

VASILSUKS ELECTRONICS FAC IONOSPHERIC HEATER UR 560845N 0460520E
WAC NO : [] RE/OBJ NO: [] NPIC NO : - 93
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

A PROBABLE IONOSPHERIC HEATER ANTENNA IS UNDER CONSTRUCTION IN THE USSR, 60 NAUTICAL MILES EAST-SOUTHEAST OF GORKLY AT VASILSUKS ELECTRONICS FACILITY. THE PROBABLE IONOSPHERIC HEATER ANTENNA CONSISTS OF 169 16-METER-HIGH MASTS ARRANGED IN 13 ROWS OF 13 MASTS SPACED 25 METERS APART.

NPIC IAR IAK0019-79 AUG 79 [] SEC CLASS: 14D MSN: 0005P ACCN: 5088275 25X1

1645
TOP SECRET CRESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25A1

MISSILES, SS-18 MOD-4 PAYLOAD ASSOC TRANS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

A NEW PAYLOAD-ASSOCIATED TRANSPORTER (PAT) ASSOCIATED WITH THE SS-18 (MOD-4) POSTBOOST VEHICLE (PBV) HAS BEEN IDENTIFIED AT UZHUR SSM COMPLEX, IMENI GASTELLO SSM COMPLEX, ZHANGIZTOBE SSM COMPLEX, DOMBAROVSKIY SSM COMPLEX, AND TYURATAM MISSILE/SPACE TEST CENTER SSM. THE PAT HAS ALSO BEEN SEEN WITH SS-18 (MOD-4)-ASSOCIATED CONTAINERS THAT WERE RECENTLY DELIVERED TO FIVE SS-18 COMPLEXES. TOGETHER, THE PAT AND THE SS-18 (MOD-4)-ASSOCIATED CONTAINERS INDICATE THAT THE SS-18 (MOD-4) PAYLOAD IS BEING DEPLOYED TO AT LEAST FIVE OF THE SIX SS-18 COMPLEXES IN THE SOVIET UNION.

NPIC IAR IARA02U-79 SEP 79 SEC CLASS: 14B MSN: 0002P ACCN: 5088276 25X1

RAMENSKOYE AEROHYDRODYNAMIC INST A/C MODELS UR 553549N 0380607E
WAC NO : BE/OBJ NO: NPIC NO : - 50-A
IDHS CODE: EPF CAT : 05B COMIREX NO:

25X1
25X1

THE WINGS AND FUSELAGE SECTIONS OF TWO UNIDENTIFIED TEST SCALE MODELS OF HIGH-PERFORMANCE AIRCRAFT WERE OBSERVED AT RAMENSKOYE CENTRAL AEROHYDRODYNAMIC INSTITUTE, USSR, ON IMAGERY OF THE TWO TEST SCALE MODELS ARE SIMILAR IN APPEARANCE, AND EACH CONSISTS OF A FUSELAGE SECTION WITH NEW-TYPE VARIABLE GEOMETRY WINGS.

25X1

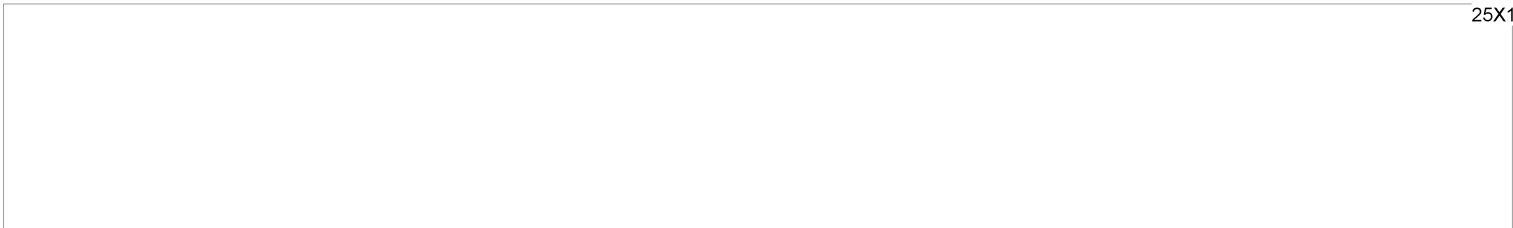
NPIC IAR IARA024-79 SEP 79 SEC CLASS: 14B MSN: 0003P ACCN: 5088277 25X1 25X1

PRIMORSKIY HELIPORT HORMONE MODIF KA-25 IDENT UR 450750N 0353130E
WAC NO : BE/OBJ NO: NPIC NO : - 7-B1
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1
25X1

THE FIRST IDENTIFICATION OF MODIFIED HORMONE HELICOPTERS AT AN OPERATIONAL BASE WAS MADE ON IMAGERY OF WHEN THREE MODIFIED HORMONES (ONE WITH DISRUPTIVE PAINT) WERE OBSERVED AT PRIMORSKIY HELIPORT USSR.

25X1



25X1

1646
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CRESS RUFF

225X1

25X1

NPIC PIR PIR000-79 JUL 79 [] SEC CLASS: 14R MSN: [] 0006P ACN: S088280 25X1

MILITARY CONSTRUCTION BATTALIONS NONDIVISION UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDIS CODE: EPI CAT : 35 COMIREX NO:

THIS REPORT IS AN IMAGERY-DERIVED ANALYSIS OF SOVIET NONDIVISIONAL CONSTRUCTION BATTALIONS. THE REPORT
EMPHASIZES THE UNUSUAL TABLE OF ORGANIZATION AND EQUIPMENT AND THE FUNCTION OF THE CONSTRUCTION BATTALION
AS DISTINGUISHED FROM OTHER NONDIVISIONAL ENGINEERING UNITS.
THIS REPORT INCLUDES TWO ANNOTATED PHOTOGRAPHS, A MAP, AND A TABLE.

NPIC PIR MSC000-79 AUG 79 [] SEC CLASS: 14R MSN: [] 0006P ACN: S088280 25X1

WAC NO : BE/OBJ NO: NPIC NO : -
IDIS CODE: EPI CAT : 60A COMIREX NO:

DIA DIRM R07000-0000-70 SEP 79 [] SEC CLASS: 14D MSN: [] 0009P ACN: S088280 25X1

TOP SECRET CRESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1

SOVETSKAYA GAVAN SUBMARINE BASE

WAC NO :
IHS CODE:

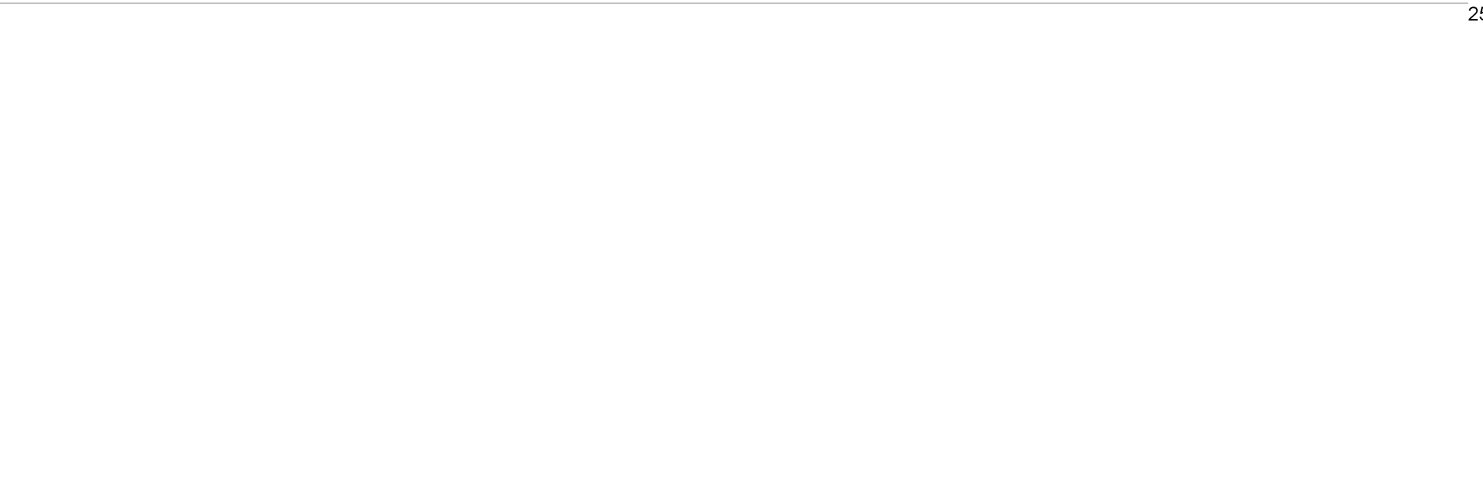
BE/OBJ NO:
EPF CAT : 75A

UR 490125N 1401531E
NPIC NO : - 29-C
COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED IMAGERY-DERIVED ANALYSIS OF SOVETSKAYA GAVAN SUBMARINE BASE, USSR. THE INSTALLATION IS LOCATED 3.0NM NNW OF THE CITY OF SOVETSKAYA GAVAN, AND 13.0NM SOUTH OF ALEKSEYEVKA. THE BASE LIES ON THE NORTHERN COAST OF BUKHTA (BAY) ZAPADNAYA, AN EXTENSION OF SOVETSKAYA GAVAN (HARBOR), ON THE WESTERN SHORE OF Tatarskiy Proliv (Strait). THE BASE OCCUPIES APPROXIMATELY 32 HECTARES AND CONTAINS FOUR FUNCTIONAL AREAS: VEHICLE MAINTENANCE/STORAGE, ADMINISTRATION/BILLETING, OPERATIONS/BERTHING, AND POL STORAGE. THESE AREAS CONTAIN A TOTAL OF 49 BUILDINGS, 5 PONTOON PIERS, 2 PIERS, 2 OFFSHORE WHARVES, 2 PARTIALLY UNDERGROUND (PUG) POL TANKS, AND A HEATING PLANT. THE FACILITY SERVES AS A SECONDARY OPERATING AND RESERVE BASE FOR DIESEL POWERED TORPEDO ATTACK SUBMARINES OF THE SOVIET PACIFIC FLEET. UNITS NORMALLY OBSERVED AT THE BASE INCLUDE WHISKEY SS AND VARIOUS AUXILIARY AND SERVICE CRAFT.

THIS REPORT INCLUDES A MAP, AN ORIENTATION VIEW OF SOVETSKAYA GAVAN AREA NAVAL FACILITIES, A DETAILED GRAPHIC OF THE TARGET, AND AN IMAGERY AND DOCUMENT REFERENCE LIST. THE NATIONAL BASIC REFERENCE GRAPHIC (NBRG) FOR THIS INSTALLATION IS NDA-06/5133/77, 17 AUG 78 (SECRET). SINCE AUGUST 1978 A PIER HAS BEEN ADDED AT REPORTING POSITION 9 AND PART OF THE ADMINISTRATION/BILLETING AREA HAS BEEN REDESIGNATED AS VEHICLE MAINTENANCE/STORAGE.



25X1

1648

TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA11-0002-79 AUG 79 SEC CLASS: 14D MSN: 0007P ACCN: 5088285 25X1

TUICHEN ARMS PLANT

WAC NO :

IUHS CODE:

BE/OBJ NO:

EPF CAT : 35G

CH 370157N 1113118E

NPIC NO : - 21-A

COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF TUI-CHEN ARMS PLANT, LOCATED ON SHENSI PROVINCE IN EAST-CENTRAL PEOPLE'S REPUBLIC OF CHINA. THE ROAD SERVED PLANT ENCOMPASSES APPROXIMATELY 37 HECTARES AND INCLUDES 137 BUILDINGS WITH A TOTAL ROOF COVER OF 40,141 SQUARE METERS. THE NEAREST RAIL LINE IS 16.1 NM TO THE SOUTHEAST. THE PLANT COMPRISES FACILITIES CAPABLE OF PRODUCING SMALL ARMS AND REPLACEMENT PARTS AS WELL AS REBUILDING A LARGE VARIETY OF SMALL ARMS WEAPONS. APPARENTLY IT IS FUNCTIONALLY RELATED TO KANG-CHENG ARMS PLANT, WHICH IS LOCATED 18 NM TO THE WEST. BOTH PLANTS, ALTHOUGH GEOGRAPHICALLY SEPARATED, PROBABLY SHARE OPERATIONS AND RESPONSIBILITIES. THE PLANT HAS BEEN DIVIDED INTO FIVE FUNCTIONAL AREAS ACCORDING TO THE PRINCIPAL OPERATION OR ACTIVITY BELIEVED TO BE OCCURRING IN EACH. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, TWO ANNOTATED PHOTOGRAPHS, AND TWO TABLES. A DATA REFERENCE LIST FURNISHES IMAGERY AND MAP SOURCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED IN THIS REPORT.

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DIA BIIR RDA06-0005-78 SEP 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0008P ACCN: S088287 25X1

OCHAKOV NAVAL BASE

WAC NO : [Redacted] BE/OBJ NO: [Redacted] UR 463700N 0313300E
IDHS CODE: [Redacted] EPF CAT : 75B NPIC NO : - 50-A3
COMIREX NO: [Redacted]

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THIS IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF OCHAKOV NAVAL BASE, LOCATED ON THE NORTH COAST OF THE BLACK SEA IN SOUTHWESTERN USSR. IT IS AN OPERATING BASE FOR MINOR SURFACE COMBATANTS. THE 18-HECTARE FACILITY CONTAINS 6 PIERS, [Redacted] OF QUAYED BERTHING, 2 SMALL BOAT STORAGE AREAS, 6 BOAT PENS, 1 FLOATING DRYDOCK, 6 UNDERGROUND ENTRANCES, AND 35 HORIZONTAL POL TANKS WITH AN ESTIMATED CAPACITY OF 3,500 BARRELS. THE INSTALLATION ALSO HAS 26 BUILDINGS/STRUCTURES FOR ADMINISTRATION, REPAIR, STORAGE, SECURITY, AND SUPPORT FUNCTIONS. NOB CONSISTS OF POTI PG, SO-1 PCS, OSA PTG, SASHA MSC, MSD, AND MISCELLANEOUS AUXILIARIES AND SERVICE CRAFT.

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THE INFORMATION INCLUDES A MAP, TWO ANNOTATED PHOTOGRAPHS, A GLOSSARY OF SHIP TYPES, AND A TABLE. A REFERENCE DATA LIST FURNISHES IMAGERY AND MAP REFERENCES. A NATIONAL BASIC REFERENCE GRAPHIC (NBRG) IS INCLUDED.

NPIC IAR IARA031-79 SEP 79 [Redacted] SEC CLASS: 14D MSN: 0002P ACCN: S088288 25X1

ANAMA ARMY BARRACKS

WAC NO : [Redacted] BE/OBJ NO: [Redacted] UR 435000N 1464600E
IDHS CODE: [Redacted] EPF CAT : 35A NPIC NO : - 5-B
COMIREX NO: [Redacted]

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A NEW SOVIET GROUND FORCES INSTALLATION, DESIGNATED ANAMA ARMY BARRACKS, WAS IDENTIFIED ON SHIKOTAN ISLAND, AT 43-50-00N 146-46-00E, ON [Redacted] SHIKOTAN IS ONE OF THE DISPUTED ISLANDS OFF THE NORTHEAST COAST OF JAPAN WHERE A BUILDUP OF SOVIET GROUND FORCES HAS BEEN UNDERWAY SINCE JUNE 1978.

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TOP SECRET CHESS RUFF

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[Redacted]

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TOP SECRET CHESS RUFF

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[Redacted]

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DIA BIIR KDA06-0005-78 AUG 79 [Redacted] SEC CLASS: 14D MSN: [Redacted] 0009P

ACCN: 5088290 25X1

CHINGTAO MOTOR TORPEDO BOAT BASE CH 360323N 1201924E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 13-I
IUHS CODE: [Redacted] EPF CAT : 75B COMIREX NO: [Redacted]

25X1
25X1

THIS REPORT IS A DETAILED, IMAGEY-DERIVED ANALYSIS OF CHING-TAO MOTOR TORPEDO BOAT BASE, LOCATED ON THE PENINSULA FORMING THE CHIAO-CHOU WAN (BAY). THE BASE OCCUPIES APPROXIMATELY 14 HECTARES WITH 14 REPAIRWAYS, 1 COVERED REPAIRWAY, A SIDE-HAUL 5 TRACK MARINE RAILWAY, 325 METERS OF QUAYAGE, 4 FLOATING PIERS, A BREAKWATER, AND A BREAKWATER/CAUSEWAY, THE LATTER CONNECTED TO A SMALL ISLAND. THE FACILITY CONTAINS 102 BUILDINGS WITH FUNCTIONS THAT INCLUDE ADMINISTRATION, BILLETING, STORAGE AND SUPPORT.

CIA IAMR ISMR006J-79 AUG 79 [Redacted] SEC CLASS: 25 X MSN: [Redacted] 0017P

ACCN: 5088291 25X1

TUBRUQ SUBMARINE TRAINING SCHOOL LY 320609N 0235825E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 6-A
IUHS CODE: [Redacted] EPF CAT : 75A COMIREX NO: [Redacted]
HAMHUNG MACHINERY PLANT YONGSONG EXPLD DAMAGE KN 394908N 1273558E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 22-I
IUHS CODE: [Redacted] EPF CAT : 30C COMIREX NO: [Redacted]
HUNGNAM RAIL YARD MUNITIONS TRAIN EXPLOSION KN 395018N 1273741E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 22-A
IUHS CODE: [Redacted] EPF CAT : 85B COMIREX NO: [Redacted]
TRANSPORTATION, SCHNABEL SIDE BEAM RAIL CAR CH
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IUHS CODE: [Redacted] EPF CAT : 85E COMIREX NO: [Redacted]
MILITARY, 85MM ANTI-TANK GUN INFANTRY REGTS CH
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IUHS CODE: [Redacted] EPF CAT : 35E COMIREX NO: [Redacted]
MILITARY, ZPU-2 14.5MM MACHINE GUN INF REGTS CH
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
IUHS CODE: [Redacted] EPF CAT : 35E COMIREX NO: [Redacted]
SHANGHAI SHIPYARD KIANGNAN YUAN WANG CL SESS CH 311205N 1212901E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 28-R
IUHS CODE: [Redacted] EPF CAT : 75E COMIREX NO: [Redacted]
WULUMUCHI MILITARY REGION ARTY/TANK/INF REGTS CH 434830N 0873710E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 4-U9
IUHS CODE: [Redacted] EPF CAT : 35 COMIREX NO: [Redacted]

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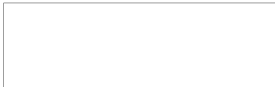
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DIA BIIR KDA06-0002-78 SEP 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0007P

ACCN: 5088292 25X1

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




TOP SECRET CHESS RUFF 




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FEODOSIYA NAVAL TORPEDO TEST STATION

WAC NO : 
IDHS CODE: 

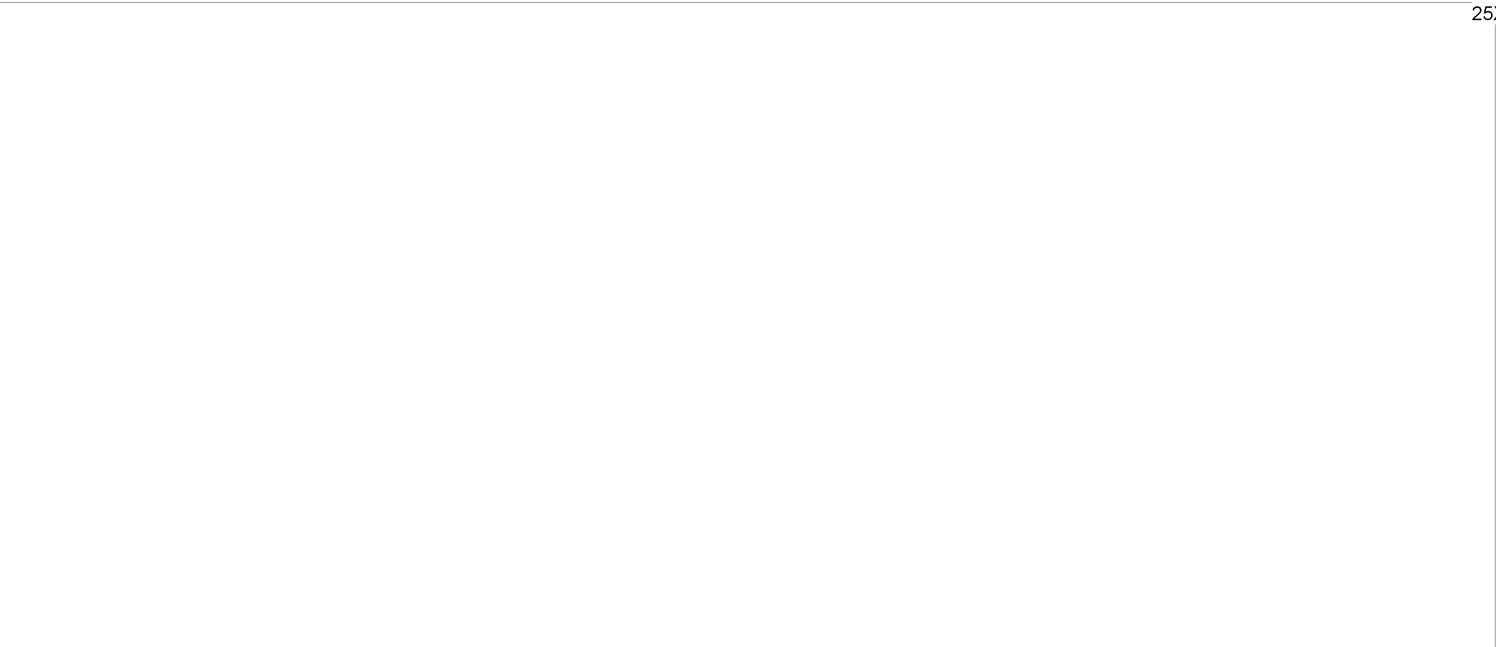
BE/OBJ NO: 
EPF CAT : 75F

UR 445720N 0352206E
NPIC NO : - 7-A
COMIREX NO: 

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THIS REPORT IS A DETAILED IMAGERY-DERIVED ANALYSIS OF FEODOSIYA NAVAL TORPEDO TEST STATION, USSR. THE INSTALLATION IS LOCATED APPROXIMATELY 4.5 NM SOUTH OF FEODOSIYA NAVAL BASE AND SHIP REPAIR YARD. IT APPEARS TO BE ENGAGED IN THE RESEARCH AND DEVELOPMENT OF SUBSURFACE WEAPONS AND THE ROUTINE RANGING OF NEWLY MANUFACTURED TORPEDOS.

THIS REPORT INCLUDES A MAP, AN ORIENTATION VIEW OF THE SUBJECT TARGET, A DETAILED NBRG GRAPHIC OF THE TARGET, AND SELECTED ANNOTATED PHOTOGRAPHS OF ACTIVITY WITHIN THE INSTALLATION.



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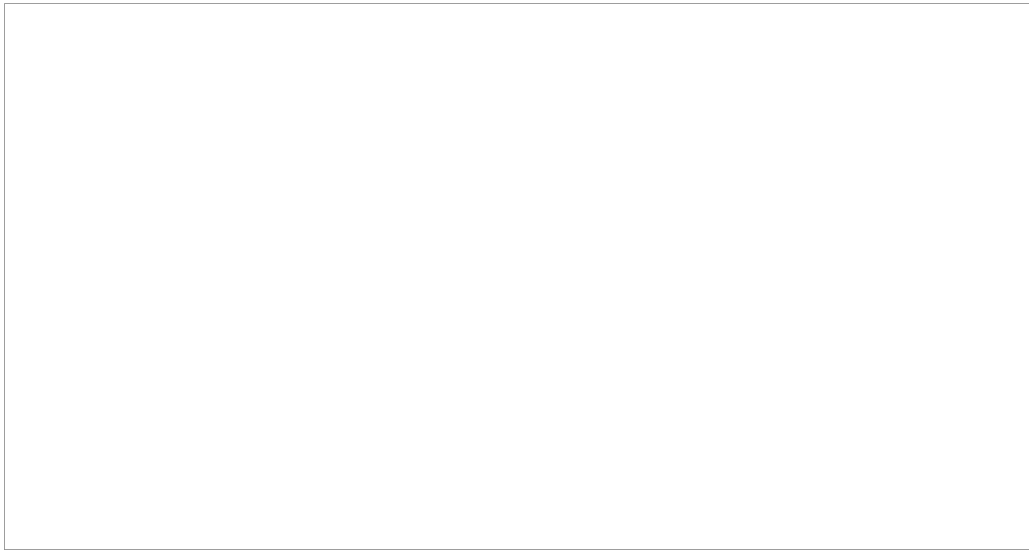
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AF PAR 5-79 30 JUL 79 SEC CLASS: 07 MSN: 0002P ACCN: 5088303

AIRCRAFT, FORGER YAK-36 ENGINE + ASSOC OBJS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 05D COMIREX NO:

THIS REPORT PROVIDES AN ANALYSIS OF THREE COLOCATED OBJECTS ON THE FLIGHT DECK OF THE MINSK CVSG.
DRAWINGS 78E1003 AND 79B3004 SUPPLEMENT THIS REPORT.*

AF ENDR D1014-79 03 AUG 79 SEC CLASS: 07 MSN: 0001P ACCN: 5088304

ELECTRONICS, FLAT FACE RADAR MODIFIED UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 25A COMIREX NO:

AF ENDR B3005-79 07 AUG 79 SEC CLASS: 008 MSN: 0001P ACCN: 5088305

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TOP SECRET CHESS RUFF

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AIRCRAFT, COKE AN-24 BOMB RACK

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 05D

UR
NPIC NO : -
COMIREX NO:

CIA INFR 1510131J-79 07 SEP 79 [] SEC CLASS: 13 MSN: 0008P

ACCN: 5088306 25X1

ESFAHAN IRON + STEEL PLANT

WAC NO :
IUHS CODE: []

BE/OBJ NO: []
EPF CAT : 30C

IR 322540N 0511950E
NPIC NO : -
COMIREX NO: []

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THE LARGEST IRON AND STEEL PLANT IN THE MIDDLE EAST IS LOCATED NEAR ESFAHAN IN THE WEST CENTRAL PORTION OF IRAN. THE PLANT WAS CONSTRUCTED WITH SOVIET ASSISTANCE BETWEEN 1967 AND 1973 AND IS ONE OF TWO STEEL PRODUCING PLANTS IN IRAN. THE PLANT CONTAINS FACILITIES FOR PROCESSING IRON ORE AND LIME AND PRODUCING COKE, PIG IRON AND ROLLED STEEL. EXPANSION OF PLANT FACILITIES WHICH HAS BEEN UNDERWAY SINCE 1973 WILL REPORTEDLY BRING ANNUAL STEEL PRODUCTION CAPACITY UP TO 1.9 MILLION METRIC TONS.

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CIA INFR 1510134K-79 28 AUG 79 [] SEC CLASS: 14 MSN: 0010P

ACCN: 5088306 25X1

MISSILES, SS-18 SILO GROUPS CONST SCHEDULE

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 40A

UR
NPIC NO : -
COMIREX NO:

THE SOVIETS APPARENTLY WILL COMPLETE THEIR SS-18 ICBM SILO CONSTRUCTION PROGRAM BY LATE SEPTEMBER 1980 IF THE CURRENT CONSTRUCTION RATE CONTINUES. THEY ARE PRESENTLY USING 10 CONSTRUCTION BATTALIONS -- 480 TO 600 MEN EACH -- FOR THE CONVERSION OF SS-9 ICBM SILOS TO THE SS-18 CONFIGURATION. A CONSTRUCTION BATTALION COMPLETES THE CONVERSION OF A LAUNCH GROUP OF SIX SILOS IN 18 TO 22 MONTHS. THE DIFFERENCE IN TIMING APPEARS TO BE FOR ACHIEVING OPERATIONAL STATUS BY THE END OF A GIVEN MONTH AT ALL THE LAUNCH GROUPS COMPLETED DURING A YEAR.

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CIA INFR IS10137K-79 23 AUG 79 [] SEC CLASS: 14 X MSN: 0005P ACCN: S088309 25X1

HUNGNAM RAIL YARD MUNITIONS TRAIN EXPLOSION KN 395018N 1273741E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 22-A 25X1
IUHS CODE: [] EPF CAT : 85B COMIREX NO:
HAMHUNG MACHINERY PLANT YONGSONG EXPLO DAMAGE KN 394908N 1273558F
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 22-I 25X1
IUHS CODE: [] EPF CAT : 30C COMIREX NO: [] 25X1

ANALYSIS OF SATELLITE IMAGERY SHOWS THAT AN EXPLOSION OF A MUNITIONS TRAIN IN A RAILYARD IN HUNGNAM, NORTH KOREA DEVASTATED AN AREA NEAR THE INITIAL BLAST SITE AND CAUSED EXTENSIVE DAMAGE TO INDUSTRIAL AND CIVILIAN FACILITIES AS FAR AWAY AS 1,200 METERS. THE HAMHUNG MACHINERY PLANT YONGSONG WHICH IS INVOLVED IN PRODUCTION AND ASSEMBLY OF SELF-PROPELLED ARTILLERY SUFFERED CONSIDERABLE DAMAGE WHICH UNDOUBTEDLY RESULTED IN PRODUCTION DELAYS. BY EARLY JUNE, AN EXTENSIVE RECONSTRUCTION EFFORT WAS UNDERWAY THROUGHOUT THE AREA AFFECTED BY THE EXPLOSION.

CIA INFR IS10147J-79 05 SEP 79 [] SEC CLASS: 24 MSN: 0007P ACCN: S088310 25X1

MILITARY, BRIGADE-SIZE UNIT SOVIET IDENTIFIED CU
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 35 COMIREX NO:

PHOTOGRAPHY SUBSTANTIATES COMINT'S IDENTIFICATION OF A SOVIET BRIGADE-SIZE UNIT IN CUBA. ELEMENTS OF THE BRIGADE WERE OBSERVED TRAINING IN THE CANDELARIA AREA OF WESTERN CUBA (SAN PEDRO TRAINING AREA) IN AUGUST 1978 AND 1979. MAJOR ELEMENTS OF THE BRIGADE ARE GARRISONED AT SANTIAGO DE LAS VEGAS MILITARY CAMP 2 WHILE THE REMAINING ELEMENTS ARE AT THE LOURDES CENTRAL SIGINT COMPLEX. THE BRIGADE IS COMPOSED OF FOUR MANEUVER BATTALIONS (ONE TANK AND THREE MOTORIZED RIFLE), ONE MULTIPLE ROCKET LAUNCHER BATTALION, AND A SERVICE SUPPORT BATTALION. EACH MOTORIZED RIFLE BATTALION IS COMPOSED OF THREE MOTORIZED INFANTRY COMPANIES, ONE HOWITZER BATTERY, ONE ANTITANK GUIDED MISSILE BATTERY, AN AIR DEFENSE PLATOON, AND A MORTAR BATTERY. IF AT FULL STRENGTH, THE ESTIMATED PERSONNEL STRENGTH OF THE SOVIET BRIGADE IS 2,600.

CIA INFR IS10132K-79 28 AUG 79 [] SEC CLASS: 13 MSN: 0004P ACCN: S088311 25X1

MISSILES, CSS-1 CH
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 40H COMIREX NO:

ANALYSIS OF RECENTLY ACQUIRED GROUND PHOTOGRAPHS OF CHINESE MISSILES THAT ARE BELIEVED TO BE THE CSS-1 MEDIUM-RANGE BALLISTIC MISSILE AT THE CHIU-FENGRUN FIELD LAUNCH SITE IN NORTHEAST CHINA, REVEALS THAT THE RECENTLY VEHICLE (RV) IS SMALLER AND ITS NOSE MORE BLUNT THAN COULD BE DETERMINED BY ANALYSIS OF AVAILABLE SATELLITE IMAGERY. THE OVERALL LENGTH OF THE CSS-1 -- INCLUDING THE RV -- IS [] WHICH IS ABOUT THE SAME AS DETERMINED FROM SATELLITE IMAGERY; HOWEVER, THE GROUND PHOTOS DID SHOW THAT THE FORWARD END OF

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THE MISSILE IS TAPERED.

CIA INFR IS10142K-79 29 AUG 79 [] SEC CLASS: 13 MSN: 0006P ACCN: S088312 25X1

MISSILES, TRANSPORTER PROD CIVILIAN IND SRCH	CH
WAC NO :	BE/OBJ NO:
NPIC NO : -	
IDHS CODE:	EPF CAT : 40E
COMIREX NO:	
INDUSTRY, MISSILE TRANSPORTER PRODUCTION SRCH	CH
WAC NO :	BE/OBJ NO:
NPIC NO : -	
IDHS CODE:	EPF CAT : 30
COMIREX NO:	

PHOTOGRAPHIC ANALYSIS OF 64 CHINESE INDUSTRIAL PLANTS THAT MANUFACTURE RAILROAD ROLLING STOCK, MOTOR VEHICLES, TRACTORS, AND HEAVY MACHINERY FAILED TO REVEAL EVIDENCE THAT ANY OF THE PLANTS PRODUCE MISSILE TRANSPORTERS. THE ANALYSIS WAS DONE IN AN ATTEMPT TO IDENTIFY THE LOCATION AND PRODUCTION LEVEL OF CHINESE MISSILE TRANSPORTERS AS AN INDIRECT MEANS OF DETERMINING THE NUMBER OF STRATEGIC MISSILES IN THE CHINESE INVENTORY. MISSILE TRANSPORT EQUIPMENT HAS BEEN OBSERVED AT MISSILE MANUFACTURING PLANTS FOR YEARS BUT EVIDENCE CONFIRMING THE MANUFACTURE OF THE EQUIPMENT AT THOSE PLANTS IS LACKING. THIS STUDY INVOLVED ANALYSIS OF CIVILIAN INDUSTRIAL PLANTS FOR EVIDENCE OF MISSILE TRANSPORTER PRODUCTION.

CIA INFR IS10136K-79 16 AUG 79 [] SEC CLASS: 13 MSN: 0008P ACCN: S088313 25X1

SHIPS, TYPHOON CLASS SSBN	UR
WAC NO :	BE/OBJ NO:
NPIC NO : -	
IDHS CODE:	EPF CAT : 75D
COMIREX NO:	

SECTIONS OF WHAT ARE BELIEVED TO BE MISSILE-BAY DECK PLATE FOR THE 'TYPHOON'--A LARGE, NEW SOVIET NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINE (SSBN) CURRENTLY UNDER CONSTRUCTION AT SEVERODVINSK SHIPYARD 402--WERE SEEN ON SEVERAL PHOTOGRAPHIC COVERAGES IN SEPTEMBER AND OCTOBER 1977. A DIMENSIONAL AND CONFIGURATIONAL ANALYSIS OF THESE DECK PLATE SECTIONS INDICATES THAT THE PRESSURE HULL IN TYPHOON'S MISSILE BAY WILL BE AT LEAST [] AND POSSIBLY AS MUCH AS [] IN DIAMETER. BY COMPARISON, THE PRESSURE HULL DIAMETER OF THE MISSILE BAY AREA OF DELTA-SERIES SSBNs--THE LARGEST OPERATIONAL SOVIET BALLISTIC MISSILE SUBMARINES--IS ONLY []

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NPIC REPT STAR00-79 JUN 79 [Redacted] SEC CLASS: 14B MSN: 0020P

ACCN: 5088333 25X1

GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT	HU
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 101
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 101
GENERAL, CAMOUFLAGE/CONCEALMENT/DECEPTION ACT	CH
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 101
	NPIC NO : -
	COMIREX NO:
	NPIC NO : -
	COMIREX NO:
	NPIC NO : -
	COMIREX NO:

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TOP SECRET CHESS RUFF [Redacted]

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CIA INFR IS10125K-79 06 SEP 79 SEC CLASS: 13 MSN: 0005P ACCN: S088336

25X1

MISSILES, ICBM TYPE JF SILO SHOCK ISLTN CMPNT UR
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 40A COMIREX NO:

A SHOCK ISOLATION COMPONENT, WHICH IS USED TO INCREASE THE SURVIVABILITY OF AN IN-SILO MISSILE, HAS BEEN IDENTIFIED FOR THE TYPE IIIF (SS-18) SILO. THIS COMPONENT IS CIRCULAR AND CONSISTS OF TWO RINGS THAT ARE CONNECTED BY EIGHT VERTICAL SUPPORT MEMBERS. THIS SHOCK ISOLATION COMPONENT IS APPARENTLY SUSPENDED IN THE SILO BY FOUR CABLES THAT ARE ATTACHED TO THE SILO HEADWORKS AND TO SUSPENSION PRONGS LOCATED ON THE COMPONENT'S UPPER RING. THE MISSILE CANISTER IS ATTACHED TO THE INNER CIRCUMFERENCE OF THE COMPONENT AT ABOUT THE MID-POINT OF THE CANISTER AND ITS EXTENSION.

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CIA INFR IS10144K-79 30 AUG 79 SEC CLASS: 13 MSN: 0006P ACN: S088338

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MISSILES, SS-11 CANISTERS SHELTER USE UR
WAC NO : BE/OBJ NO: NPIC NO : -
IHHS CODE: EPF CAT : 40A COMIREX NO:

THERE IS A HIGH PROBABILITY THAT THE SOVIETS HAVE REMOVED UNFIRED MISSILES FROM SOME SS-11 CANISTERS AND THEN USED THE CANISTERS AS PERSONNEL SHELTERS. THESE CANISTERS WERE APPARENTLY REMOVED FROM SILOS THAT WERE EITHER MODERNIZED OR CONVERTED. SUCH A USE FOR THESE CANISTERS PREVENTS THE REMOVED MISSILES FROM BEING READILY AVAILABLE FOR TIMELY FIRING. SPENT SS-11 MISSILE CANISTERS HAVE BEEN USED FOR PERSONNEL SHELTERS FOR SEVERAL YEARS, BUT IT WAS NOT KNOWN THAT CANISTERS THAT HAD CONTAINED UNFIRED SS-11 MISSILES HAD BEEN USED FOR THIS PURPOSE.

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DIA	IIM	5B3-73190-79	11 SEP 79	[]	SEC CLASS: 13	MSN: []	0001P	ACCN: S088345	25X1
		GATCHINA AIRFIELD NEW							
		WAC NO :	[]	BE/OBJ NO:	UR	593553N 0301544E			25X1
		IDHS CODE:	[]	EPF CAT : 05A		NPIC NO : -			25X1
						COMIREX NO:			
DIA	IIM	5B3-73192-79	10 SEP 79	[]	SEC CLASS: 13	MSN: []	0001P	ACCN: S088346	25X1
		SUMY AIRFIELD							
		WAC NO :	[]	BE/OBJ NO:	UR	505145N 0344610E			25X1
		IDHS CODE:	[]	EPF CAT : 05A		NPIC NO : - 43			25X1
						COMIREX NO:	[]		
DIA	IIM	5B3-73186-79	10 SEP 79	[]	SEC CLASS: 13	MSN: []	0001P	ACCN: S088347	25X1
		RAKVERE/VAINUPAA AIRFIELD							
		WAC NO :	[]	BE/OBJ NO:	UR	593209N 0261855E			25X1
		IDHS CODE:	[]	EPF CAT : 05A		NPIC NO : - 193			25X1
						COMIREX NO:	[]		
DIA	IIM	5B3-73256-79	19 SEP 79	[]	SEC CLASS: 13	MSN: []	0002P	ACCN: S088348	25X1
		BECHYNE AIRFIELD							
		WAC NO :	[]	BE/OBJ NO:	CZ	491630N 0143010E			25X1
		IDHS CODE:	[]	EPF CAT : 05A		NPIC NO : - 12			25X1
						COMIREX NO:	[]		
		MIER Y NORIEGA AIRFIELD							
		WAC NO :	[]	BE/OBJ NO:	MX	232540N 1000706W			25X1
		IDHS CODE:	[]	EPF CAT : 05A		NPIC NO : -			25X1
						COMIREX NO:	[]		25X1

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TOP SECRET CHESS RUFF [Redacted]

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DIA IIM 5B3-73247-79 20 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0002P ACCN: S088350

25X1

PLZEN HELIPORT CZ 494340N 0132000E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 136-G
IDHS CODE: [Redacted] EPF CAT : 05 COMIREX NO: [Redacted]

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25X1

[Redacted]

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DIA IIM 5B1-73171-79 20 SEP 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0004P ACCN: S088352

25X1

ARTEM AMMUNITION STORAGE DEPOT DA2 UR 432010N 1321140E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 1-A3
IDHS CODE: [Redacted] EPF CAT : 35F COMIREX NO:

25X1

DIA IIM 5B1-73271-79 20 SEP 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0005P ACCN: S088353

25X1

LISTVENICHNOYE TACTICAL SSM BARRACKS AL1 UR 465149N 1424627E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 41-M
IDHS CODE: [Redacted] EPF CAT : 35A COMIREX NO: [Redacted]

25X1
25X1

[Redacted]

25X1

1668
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

[Redacted]

25X1

DIA IIM 5B3-73251-79 19 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0002P ACCN: S088356 25X1

HRADEC KRALOVE AIRFIELD

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05A

CZ 501512N 0155048E
NPIC NO : - 71
COMIREX NO: [Redacted]

25X1
25X1

[Redacted]

25X1

DIA IIM 5B1-73214-79 19 SEP 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0010P ACCN: S088358 25X1

LENINGRAD AAA TRAINING AREA

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35D

UR 600800N 0310340E
NPIC NO : - 50-V1
COMIREX NO: [Redacted]

25X1
25X1

DIA IIM 5B3-73248-79 19 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0002P ACCN: S088359 25X1

HAVLICKUV BROD AIRFIELD

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05A

CZ 493559N 0153300E
NPIC NO : - 66
COMIREX NO:

25X1

[Redacted]

25X1

DIA IIM 5B1-73227-79 14 SEP 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0004P ACCN: S088362 25X1

1669
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

KUYVOZI MILITARY TRAINING AREA TA2

WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35B

UR 602325N 030300E
NPIC NO : -
COMIREX NO:

25X1

DIA IIM 5B3-73220-79 14 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0002P

ACCN: 5088363 25X1

TIRANE/RINAS AIRFIELD

WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05A

AL 412452N 0194320E
NPIC NO : - 67
COMIREX NO: [Redacted]

25X1

25X1

25X1

[Large Redacted Block]

DIA IIM 5B1-73233-79 13 SEP 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P

ACCN: 5088366 25X1

TATYANOVKA BOMBING RANGL SEARCH

WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05

UR 5330 N 06445 E
NPIC NO : - 41-A
COMIREX NO: [Redacted]

25X1

25X1

DIA IIM 5B3-73217-79 13 SEP 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0003P

ACCN: 5088367 25X1

PUSHKIN AIRCRAFT REPAIR BASE 1

WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05F

UR 594153N 0302204E
NPIC NO : -
COMIREX NO:

25X1

PUSHKIN AIRCRAFT REPAIR BASE 2

WAC NO : [Redacted]
IUHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05F

UR 594225N 0302310E
NPIC NO : -
COMIREX NO:

25X1

[Large Redacted Block]

25X1

[Redacted]

TOP SECRET CHESS RUFF [redacted]

[redacted] 25X1

DIA IIM 5B1-73187-79 11 SEP 79 [redacted] SEC CLASS: 14B MSN: [redacted] 0007P ACCN: 5088369 25X1
 SHADRINSK MILITARY VEHICLE/EQUIPMENT PARK UR 560950N 0634020E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 25X1
 IDHS CODE: [redacted] EPF CAT : 35F COMIREX NO: [redacted]

DIA IIM 5B3-73225-79 11 SEP 79 [redacted] SEC CLASS: 14 MSN: [redacted] 0002P ACCN: 5088370 25X1
 TOTSKOYE AIRFIELD UR 522945N 0524704E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 29-D 25X1
 IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted] 25X1

DIA IIM 5B3-73161-79 10 SEP 79 [redacted] SEC CLASS: 14 MSN: [redacted] 0002P ACCN: 5088371 25X1
 OKTYABRSKOYE AIRFIELD CHEMICAL DEFENSE EQUIP UR 451930N 0340623E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 52 25X1
 IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted] 25X1
 OKTYABRSKOYE AIRFIELD CHEMICAL DEFENSE EQUIP UR 451930N 0340623E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 52 25X1
 IDHS CODE: [redacted] EPF CAT : 13E COMIREX NO: [redacted] 25X1

DIA IIM 5B1-73153-79 10 SEP 79 [redacted] SEC CLASS: 13 MSN: [redacted] 0001P ACCN: 5088372 25X1
 RIGA AIRFIELD CENTRAL UR 565932N 0240433E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 65 25X1
 IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted] 25X1

DIA IIM 5B1-73154-79 10 SEP 79 [redacted] SEC CLASS: 13 MSN: [redacted] 0001P ACCN: 5088373 25X1
 RYBINSK AIRFIELD UR 5800 N 03850 E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 52-A 25X1
 IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted]

DIA IIM 5B1-73133-79 07 SEP 79 [redacted] SEC CLASS: 14B MSN: [redacted] 0003P ACCN: 5088374 25X1
 ROSTOV MILITARY VEHICLE REPAIR DEPOT D01 UR 571125N 0392330E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 124-A1 25X1
 IDHS CODE: [redacted] EPF CAT : 35E COMIREX NO: [redacted]

DIA IIM 5B2-73093-79 11 SEP 79 [redacted] SEC CLASS: 14 MSN: [redacted] 0014P ACCN: 5088375 25X1
 BURGAS PORT FACILITIES BU 422914N 0272838E
 WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 2-A 25X1

1671
TOP SECRET CHESS RUFF [redacted]

[redacted] 25X1
[redacted] 25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NAVY BIIR R0623-0001-79 JUL 79 SEC CLASS: 14D MSN: 0047P ACCN: 5088383 25X1

SHIPS, C-1 CLASS SSGN WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75D COMIREX NO:

THIS REPORT SUPERSEDES BASIC IMAGERY INTERPRETATION REPORT (BIIR) R06-23/0002/71 OF DECEMBER 1970. IT PROVIDES AN UPDATED, DETAILED IMAGERY-ANALYSIS AND CHRONOLOGICAL HISTORY OF THE CHARLIE-I CLASS SSGN. THE REPORT CONTAINS A BASIC DESCRIPTION, PROVISIONAL SCALE DRAWINGS, AND PHOTOGRAPHS OF THE CLASS.

25X1

THE CHARLIE-I CLASS SSGN IS A NUCLEAR-POWERED SUBMARINE CAPABLE OF THE SUBMERGED LAUNCHING OF EIGHT SS-N-7 CRUISE MISSILES FROM TUBES LOCATED IN THE AREA FORWARD OF THE SAIL. IMAGERY-EVIDENCE REVEALED 12 UNITS WERE LAUNCHED FROM GORKIY SHIPYARD 112 BETWEEN 1966 AND 1972. CHARLIE-I IS PROBABLY DOUBLE-HULLED THROUGHOUT AND IS LONG WITH A MAXIMUM BEAM. RECOGNITION FEATURES INCLUDE A LARGE BULBOUS BOW WHICH HOUSES THE MISSILE AND WEAPON SYSTEMS, AN ELONGATED SAIL SLIGHTLY FORWARD OF AMIDSHIPS WITH EXTENSIVE FAIRING BETWEEN THE LOWER EDGE OF THE SAIL AND THE WALKING DECK AROUND THE SAIL, AND A PROMINENT STERN FIN/RUDDER. EFFORTS TO STREAMLINE THE HULL HAVE INCLUDED CLOSEABLE LIMBER HOLES AND FOLDING COWLINGS OVER THE BOW DIVE PLANES AND SOME OF THE SAIL-MOUNTED EQUIPMENT. THE WEAPONS IN THE BOW ARE ARRANGED IN A TWO-OVER-TWO-OVER-TWO PATTERN. AT A DISTANCE CHARLIE-I CAN BE CONFUSED WITH ITS FOLLOW-ON, THE CHARLIE-II CLASS SSGN. A PHOTOGRAPHIC COMPARISON IS INCLUDED IN THIS REPORT.

25X1

THIS REPORT IS BASED ON THE INTERPRETATION OF HAND-HELD AND THE INTELLIGENCE CUTOFF DATE FOR THIS REPORT WAS JULY 1979.

25X1

1673
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF



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25X1



25X1

NPIC IAR IARA042-79 SEP 79 [REDACTED] SEC CLASS: 14A MSN: [REDACTED] 0002P

ACCN: 5088386 25X1

DURBAN PORT FACILITIES RESHEF PGG ASW-CONFIG SF 295230S 0310230E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 1
IDHS CODE: [REDACTED] EPF CAT : 75I COMIREX NO: [REDACTED]

25X1
25X1

A RESHEF-CLASS PATROL BOAT EQUIPPED WITH DEPTH CHARGE RACKS WAS OBSERVED FOR THE FIRST TIME ON [REDACTED]
[REDACTED] AT THE SALISBURY ISLAND NAVAL FACILITY WITHIN DURBAN PORT FACILITIES, SOUTH AFRICA.

25X1
25X1

BECAUSE OF THE SPEED AND MANEUVERABILITY OF THE RESHEF-CLASS BOAT, THE ADDITION OF AN ANTISUBMARINE WARFARE (ASW) CAPABILITY WILL PROVIDE A SIGNIFICANT IMPROVEMENT OVER SOUTH AFRICA'S OLDER FORD-CLASS

1674
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

PATROL BOATS, OF WHICH THREE ARE ASW CAPABLE. ADDITIONALLY, IF THE ASW VERSION OF THE RESHEF-CLASS BOAT IS ALSO FILLED-OUT WITH THE GABRIEL-TYPE MISSILE, THE BOAT WOULD PROVIDE A NOTABLE DETERRENT TO SEABORNE INFILTRATION BOTH BY SURFACE CRAFT AND BY SUBMARINE. RECENTLY THE SOUTH AFRICAN NAVY (SAN) APPEARS TO BE PLACING GREAT EMPHASIS ON DEFENDING AGAINST SEABORNE INFILTRATION AND ON PATROLLING THE WATERS WITHIN THE 200-NM ECONOMIC EXCLUSIVE ZONE.

25X1

NPIC IAR IARA040-79 SEP 79 SEC CLASS: 25 MSN: 0002P ACCN: 5088388 25X1

AL ISKANDARIYAH SAM TRNG SITE 26 CSA-1 EQUIP EG 311850N 0300322E
WAC NO : BE/OBJ NO: NPIC NO : - 6-D1
IDHS CODE: EPF CAT : 40C COMIREX NO:

25X1
25X1

A CSA-1 SURFACE-TO-AIR-MISSILE (SAM) FIRING BATTERY WAS NEWLY OBSERVED AT AL ISKANDARIYAH SAM TRAINING SITE 26, EGYPT, ON THIS IS THE FIRST OBSERVATION OF CHINESE SAM EQUIPMENT IN EGYPT. EQUIPMENT CONSISTED OF SIX LAUNCHERS, A GIN SLING RADAR, SIX ELECTRONICS VAN TRUCKS, THREE ELECTRONICS VANS, ONE COMPUTER VAN TRUCK, ONE TYPE 59 PRIME MOVER, AND TWO ANTENNA TRAILERS.

25X1

25X1

TOP SECRET CHESS RUFF

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25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Block]

25X1

NPIC IAR IAR0014-79 SEP 79 Z20019-79 SEC CLASS: 056 MSN: 0004P ACCN: 5088391

NAVAL TRAINING EXERCISES NORTH SEA FLEET CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 75 COMIREX NO:

ON [Redacted] CHINESE NAVAL TRAINING EXERCISES WERE OBSERVED IN THE SOUTHERN SHANDONG (SHAN-TUNG) AND LIAODONG (LIAO-TUNG) LOCAL OPERATING AREAS. THE SHANDONG EXERCISES INVOLVED ELEMENTS OF THE NORTH SEA FLEET'S (NSF) MAIN SURFACE FORCES, SUBMARINE FORCE, NAVAL COASTAL DEFENSE FORCE, AND MISSILE ATTACK BOAT FORCE [Redacted]. THE SHANDONG EXERCISES WERE OBSERVED IN AN AREA APPROXIMATELY 10 NAUTICAL MILES (NM) EAST OF SHUILINGSHAN (SHUI-LING-SHAN) ISLAND. THE LIAODONG EXERCISE INVOLVED ELEMENTS OF THE NSF MAIN SURFACE FORCE AND POSSIBLY THE SUBMARINE FORCE. THE EXERCISE WAS OBSERVED 10 NM SOUTHEAST OF THE LIAODONG PENINSULA.

25X1

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[Redacted Block]

25X1

1676
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

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25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

CIA IRP IS10145K-79 SEP 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0010P ACCN: S088396 25X1

SAIN NI MOTOR VEHICLE ASSEMBLY PLANT KN 391635N 1255135E
WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 70-A1 25X1
IDHS CODE: [Redacted] EPF CAT : 85A COMIREX NO: [Redacted] 25X1

THE SAIN-NI MOTOR VEHICLE ASSEMBLY PLANT IS THE SMALLER OF THE TWO KNOWN TRUCK PLANTS IN NORTH KOREA. THE PLANT PRODUCES A THREE-TON-CAPACITY CARGO TRUCK CALLED TUJAENG-66 AND PROBABLY REPAIRS MILITARY VEHICLES SUCH AS SELF-PROPELLED ANTI-AIRCRAFT GUNS AND MOBILE ROCKET LAUNCHERS. PRODUCTION LEVELS COULD NOT BE DETERMINED FROM THE AVAILABLE PHOTOGRAPHY.

MOST OF THE PLANT'S MAJOR PRODUCTION FACILITIES WERE COMPLETE AND APPEARED TO BE OPERATING WHEN THE PLANT WAS PHOTOGRAPHED IN APRIL 1970. AN UNDERGROUND FACILITY, A CARGO BED PRODUCTION BUILDING, AND SEVERAL ADMINISTRATIVE AND SUPPORT BUILDINGS HAVE BEEN ADDED SINCE THEN. IN MAY 1979 SEVERAL LARGE BUILDINGS WERE UNDER CONSTRUCTION IMMEDIATELY NORTH OF THE PLANT. THEIR CONFIGURATION SUGGESTS THAT THEY WILL BE ASSEMBLY BUILDINGS, WHICH WOULD INDICATE A SIGNIFICANT EXPANSION OF THE PLANT.

[Redacted]

25X1

1678
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

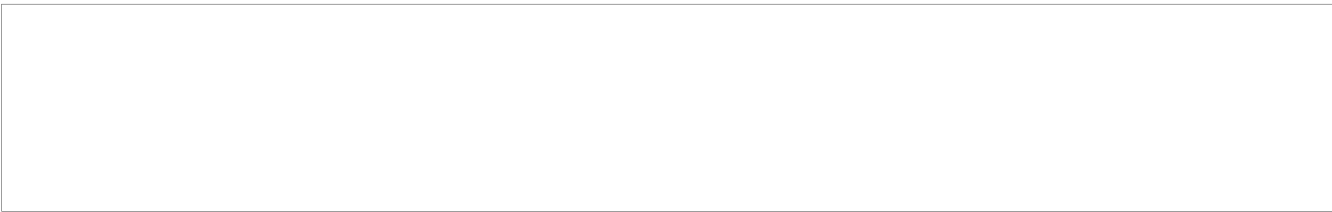
25X1



TOP SECRET CHESS RUFF



25X1



25X1

NPIC IAR IAR0022-79 SEP 79 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 0002P ACCN: S088398 25X1

BELOGORSK ARMY BKS AL6 M-1976 BMP VARIANT UR 505350N 1282700E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 14-A4
IDHS CODE: [REDACTED] EPF CAT : 35A COMIREX NO: [REDACTED]

25X1

25X1

A PROBABLE NEW BMP M-1976 VARIANT (ARMORED PERSONNEL CARRIER) WAS OBSERVED IN A TRAINING AREA AT BELOGORSK ARMY BARRACKS AL-6 USSR, ON IMAGERY OF [REDACTED] THE CANVAS-COVERED BMP HAD AN ELONGATED TURRET INDICATING THE POSSIBLE ACCOMMODATION OF A TALL MIKE BATTLEFIELD RADAR. THE TALL MIKE RADAR, PREVIOUSLY SEEN ONLY IN THE GROUP OF SOVIET FORCES GERMANY, IS MOUNTED ON THE REAR OF A MODIFIED BMP M-1976 TURRET WHICH WAS EXTENDED TO ALLOW THE RADAR TO BE RETRACTED.

25X1



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TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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NPIC MEMO 13 SEP 79 SEC CLASS: 14B MSN: 0003P ACCN: S088401 25X1

ISKROVKA RADIO RELAY STATION SW	UR 494905N 0350925E	
WAC NO : []	NPIC NO : - 70-B	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25D		
LIPOVOVE RADIO RELAY STATION	UR 492722N 0323754E	
WAC NO : []	NPIC NO : - 211	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25D		
GLOBINO RADIO RELAY STATION	UR 492902N 0331033E	
WAC NO : []	NPIC NO : - 148-A	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25D		
BELOTSERKOVKA TV RELAY STATION	UR 494030N 0334415E	
WAC NO : []	NPIC NO : - 38-D	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25B		
ZVENIGORODKA RADIO RELAY STATION	UR 490500N 0305315E	
WAC NO : []	NPIC NO : - 89-A1	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25D		
BUKI RADIO RELAY + TV BROADCAST STATION	UR 490505N 0302300E	
WAC NO : []	NPIC NO : - 99-D	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25D		
BUKI RADIO RELAY + TV BROADCAST STATION	UR 490505N 0302300E	
WAC NO : []	NPIC NO : - 99-D	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25B		
ORLOVETS RADIO RELAY STATION WNW	UR 491410N 0313215E	
WAC NO : []	NPIC NO : - 48-A	25X1
IDHS CODE: []	COMIREX NO: []	25X1
BE/OBJ NO: []		
EPF CAT : 25D		
POKREVKA RADIO RELAY STATION	UR 490005N 0294215E	

1680

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO:	NPIC NO :	- 184-A	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
LENNY RADIO RELAY STATION		UR 501301N	0361600E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 15-11	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
VINNITSA RADIO RELAY + TV RELAY STATION		UR 491410N	0282540E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 64-N	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
VINNITSA RADIO RELAY + TV RELAY STATION		UR 491410N	0282540E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 64-N	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1
CHERKASSY TV RELAY + FM BROADCAST STATION		UR 492740N	0320210E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 9-D1	25X1
IDHS CODE:	EPF CAT :	COMIREX NO:		25X1

THIS MEMO DESCRIBES ON THE LATEST KEYHOLE PHOTOGRAPHY THE KHARKOV-CHERKASSY-VINNITSA RADIO-RELAY LINE. IT GIVES TYPE, NUMBER, AND ORIENTATION OF ANTENNAS AT THE VARIOUS STATIONS ALONG THIS RADIO-RELAY LINE.*

25X1

DIA IIM 5B1-73279-79 21 SEP 79 SEC CLASS: 14B MSN: 0003P ACCN: S088403 25X1

NOVOYE SELO MILITARY INSTALLATION	UR 583530N	0314325E	
WAC NO :	BE/OBJ NO:	NPIC NO :	- 46-H
IDHS CODE:	EPF CAT :	COMIREX NO:	

25X1

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5b3-73293-79 25 SEP 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: S088407 25X1
 AKHTUBINSK FLIGHT TEST CENTER FOXBAT A MIG-25 UR 481735N 0461216E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

DIA IIM 5b3-73311-79 25 SEP 79 [] SEC CLASS: 14 MSN: [] 0004P ACCN: S088408 25X1
 AKHTUBINSK FLIGHT TEST CENTER FOXBAT MODIF UR 481735N 0461216E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1
 RAMENSKOYE FLIGHT TEST CENTER FOXBAT MODIF UR 553418N 0380923E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 50 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

DIA IIM 5b1-73319-79 25 SEP 79 [] SEC CLASS: 14 MSN: [] 0004P ACCN: S088409 25X1
 TASEJ BOMBING RANGE UR 522803N 1131141E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO: []

DIA IIM 5b3-73327-79 25 SEP 79 [] SEC CLASS: 14B MSN: [] 0004P ACCN: S088410 25X1
 SARY SHAGAN MTC R+D COMPLEX OPTICAL DVC CMPNT UR 455200N 0733100E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 38-A 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

DIA IIM 5b1-73333-79 25 SEP 79 [] SEC CLASS: 14 MSN: [] 0003P ACCN: S088411 25X1
 ULAANBAATAR ARMY BARRACKS SW AL5 D-30 IDENT MG 475035N 1064040E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 2 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
 ULAANBAATAR ARMY BARRACKS SW AL4 D-30 IDENT MG 474652N 1063615E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 2-A 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

NPIC IPIR [] PIR003-79 06 SEP 79 [] SEC CLASS: 14 MSN: [] 0021P ACCN: S088412 25X1

TOP SECRET CHESS RUFF

25X1
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TOP SECRET CHESS RUFF 



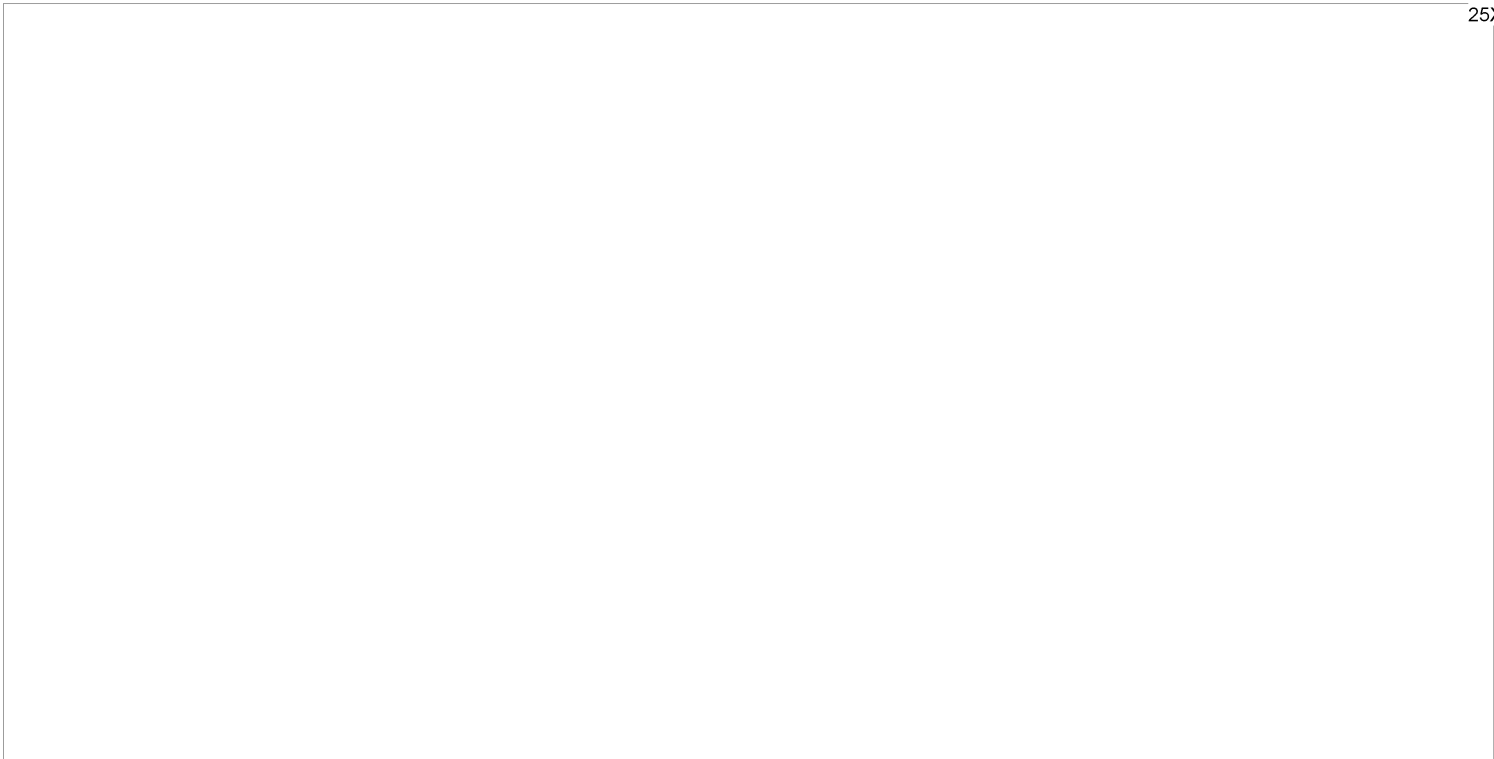
25X1

IPIR  001/003
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 15A

NPIC NO : -
COMIREX NO:

25X1



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1683
TOP SECRET CHESS RUFF 



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TOP SECRET CHESS RUFF

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25X1

DIA IIM 5B1-73337-79 03 OCT 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0003P ACCN: 5088427 25X1

TORTKUDUK BOMBING RANGE

WAC NO : [Redacted]
IHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05

UR 514930N 0740131E
NPIC NO : - 61-A
COMIREX NO: [Redacted]

25X1
25X1

1685

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

DIA IIM 5b1-7341b-79 03 OCT 79 [] SEC CLASS: 14D MSN: [] 0006P ACCN: S088428 25X1

MIRNAYA ARMY BARRACKS AL1/HQ MRD BTR-70 IDENT UR 504544N 1160334E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 6-H 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

NERCHINSKIY ZAVOD ARMY BKS WEST AL1 BTR-70 UR 511840N 1193500E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 208 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

SRETENSK MILITARY BKS AL1/HQ MRD BTR-70 IDENT UR 521519N 1174349E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 7-A 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

NIZHNEUDINSK MILITARY BKS AL1/HQ MRD BTR-70 UR 545450N 0990323E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 2-A 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA IIM 5b1-73334-79 01 OCT 79 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S088430 25X1

DZYGOVKA ORDNANCE STORAGE DEPOT UR 482105N 0282015E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 161-B 25X1
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5b1-73297-79 01 OCT 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: S088431 25X1

RECHITSA BOMBING RANGE UR 522530N 0301330E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 25X1
 IDHS CODE: [] EPF CAT : 05 COMIREX NO: [] 25X1

DIA IIM 5b1-73341-79 28 SEP 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: S088433 25X1

RUDNIKI BOMBING RANGE UR 542304N 0250459E
 WAC NO : 0168 BE/OBJ NO: [] NPIC NO : -

1686
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

	IUHS CODE: []	EPF CAT : 05	COMIREX NO:		25X1
DIA IIM	5B1-73340-79	28 SEP 79	[]	SEC CLASS: 14 MSN: [] 0006P	ACCN: 5088434 25X1
	FAGARAS CHEMICAL + EXPLOSIVES PLANT 1		RO 454838N 0245848E		
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 42		25X1
	IUHS CODE: []	EPF CAT : 30F	COMIREX NO: []		25X1
	FAGARAS CHEMICAL + EXPLOSIVES PLANT 2		RO 454838N 0245848E		
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 42		25X1
	IUHS CODE: []	EPF CAT : 35G	COMIREX NO: []		25X1
DIA IIM	5B1-73326-79	28 SEP 79	[]	SEC CLASS: 13 MSN: [] 0004P	ACCN: 5088435 25X1
	PALDISKI BOMBING RANGE		UR 592040N 0235420E		
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 209		25X1
	IUHS CODE: []	EPF CAT : 05	COMIREX NO:		
DIA IIM	5B1-73362-79	27 SEP 79	[]	SEC CLASS: 14D MSN: [] 0003P	ACCN: 5088436 25X1
	BULGAN ARMY BKS/TK DIV WEST MEDICAL EVAC VEH		MG 483501N 1032455E		
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-A		25X1
	IUHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA IIM	5B1-73332-79	27 SEP 79	[]	SEC CLASS: 14B MSN: [] 0002P	ACCN: 5088437 25X1
	ORSHA MILITARY SUPPLY DEPOT U01		UR 543115N 0302317E		
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 67-F		25X1
	IUHS CODE: []	EPF CAT : 35F	COMIREX NO: []		25X1
DIA IIM	5B1-73323-79	25 SEP 79	[]	SEC CLASS: 14B MSN: [] 0004P	ACCN: 5088438 25X1
	IVANKOVO ARMY BARRACKS		UR 564515N 0370920E		
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 18-A1		25X1
	IUHS CODE: []	EPF CAT : 35A	COMIREX NO:		

25X1

1687
TOP SECRET CHESS RUFF

25X1
25X1

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[Redacted]

TOP SECRET CHERRY RUFF [Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC IRR IAKR46-79 SEP 79 [Redacted] SEC CLASS: 14D MSN: [Redacted] 0003P ACCN: 50884425X1

TENGSHAHO SSM FIELD PSTN 172 WRD MATING EXER CH 390911N 1220453E
WAC NO : [Redacted] BE/OBS NO: [Redacted] NPIC NO : - 56-C 25X1
IDHS CDBL: [Redacted] SPC CAT : 40 COMIRLX NO: [Redacted] 25X1

A WARHEAD MATING EXERCISE WAS OBSERVED UNDERWAY AT DENGSHAHE (TENG-SHA-HO) SSM FIELD TRAINING POSITION
172 IN THE PEOPLE'S REPUBLIC OF CHINA (PRC) ON [Redacted] THIS EXERCISE DEMONSTRATED 25X1
THE CAPABILITY OF THE CHINESE TO PERFORM DIRECT TRANSFER OF A WEAPON FROM A WARHEAD VAN TO A MISSILE. THE
IMAGERY ALSO PROVIDED DETAILS OF THE INTERIOR OF THE WARHEAD VAN.

[Redacted]

25X1

TOP SECRET CHERRY RUFF [Redacted]

[Redacted]

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

AF BIIR RFB22-5004-79 JUN 79 SEC CLASS: 05 MSN: 0022P ACCN: S088460

AIRCRAFT, BACKFIRE B UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 050 COMIREX NO:

THIS REPORT PRESENTS AN ANALYSIS OF THE BACKFIRE B, A SOVIET VARIABLE-GEOMETRY-WING, TWIN-ENGINE, JET BOMBER. THE REPORT CONTAINS A BASIC DESCRIPTION, ORTHOGRAPHIC ENGINEERING DRAWINGS AND SELECTED PHOTOGRAPHY OF THE AIRCRAFT. THIS REPORT SUPERSEDES FTD BIIR RFB-22/0008/77, [REDACTED] BACKFIRE B, APRIL 1977.

25X1

THE TUPOLEV-DESIGNED BACKFIRE B HAS A FUSELAGE LENGTH OF [REDACTED] WITH WINGSPANS OF [REDACTED] IN THE FULLY EXTENDED (20 DEGREE) POSITION AND [REDACTED] IN THE FULLY SWEEP (65 DEGREE) POSITION.

25X1

25X1

CIA STDY WI10028J-79 SEP 79 [REDACTED] SEC CLASS: 25 MSN: 0094P ACCN: S088461

25X1

MISSILES, ANTISHIP/ANTISUBMARINE MISSILE SYS UR

1696
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 40G	COMIREX NO:	
MISSILES, CRUISE MISSILE SYSTEMS			
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 40K	COMIREX NO:	
MISSILES, NAVAL MISSILE SYSTEMS			
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 40G	COMIREX NO:	

THIS HANDBOOK IS AN UPDATED REVISION OF S083586, ANTISHIP AND ANTISUBMARINE MISSILE SYSTEM, NOVEMBER 1977, W177-10018J, [REDACTED]

25X1

DIA IIM 5B1-73390-79 09 OCT 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P ACCN: S0884625X1

BRYANSK ORDNANCE DEPOT BRYANSK 2			
WAC NO :	BE/OBJ NO:	NPIC NO :	- 8-L
IDHS CODE:	EPF CAT : 35F	COMIREX NO:	

25X1
25X1

DIA IIM 5B1-73377-79 02 OCT 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P ACCN: S0884625X1

OREKHOVO ZUYEVO MILITARY STORAGE DEPOT DX1			
WAC NO :	BE/OBJ NO:	NPIC NO :	- 60
IDHS CODE:	EPF CAT : 35F	COMIREX NO:	

25X1

DIA IIM 5B1-73397-79 09 OCT 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: S0884625X1

WARSAWA CIVIL DEFENSE BUNKER U/C			
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 10A	COMIREX NO:	

25X1

DIA IIM 5B1-73415-79 09 OCT 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0002P ACCN: S0884625X1

ALATYR ARTILLERY DEPOT D01			
WAC NO :	BE/OBJ NO:	NPIC NO :	- 1
IDHS CODE:	EPF CAT : 35F	COMIREX NO:	

25X1
25X1

DIA NOTE [REDACTED] 09 OCT 79 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 0003P ACCN: S0884625X1

1697
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

MISSILES, SS-X-23 AIRFRAME CANISTER PROB	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 40B
MISSILES, SS-X-23 WARHEAD CANISTER POSS	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 40B
MISSILES, SS-X-23 WARHEAD POSS	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 40B
KAPUSTIN YAR MTC SRBM COMPLEX A SS-X-23 EQUIP	UR 484116N 0461648E
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 40B

25X1
25X1

A PROBABLE SS-X-23 MRBM AIRFRAME CANISTER, A POSSIBLE WARHEAD CANISTER, AND A POSSIBLE WARHEAD WERE OBSERVED FOR THE FIRST TIME ON IMAGERY DATED [] OF KAPUSTIN YAR SRBM TEST COMPLEX A, SITE 1.

25X1
25X1

DIA IIM 581-73402-79 03 OCT 79 [] SEC CLASS: 14B MSN: [] 0004P

ACCN: S088469 25X1

TORZHOK MILITARY STORAGE FACILITY	UR 570300N 0345900E
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35F
	NPIC NO : - 60-C
	COMIREX NO: []

25X1
25X1
25X1

1698
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 658-79 24 AUG 79 [] SEC CLASS: 13 MSN: 0002P ACCN: 5088499 25X1

AKHTUBINSK/VLADIMIROVKA AREA AFLD BACKFIRE B UR 481851N 0461630E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18-C 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

AF PAR 627-79 27 AUG 79 [] SEC CLASS: 13 MSN: 0008P ACCN: 5088500 25X1

SEMIPALATINSK NWPG SHAGAN RIVER SITES 1-9 UR 495929N 0785552E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 33-M 25X1
IDHS CODE: [] EPF CAT : 55A COMIREX NO: [] 25X1

A CHRONOLOGY OF CONSTRUCTION AND ACTIVITY AT THE SHAGAN RIVER TEST AREA, SILOS 1 THROUGH 6 AND
STRUCTURES 7 THROUGH 9 FOLLOWING THE 16 OCTOBER WEAPONS EFFECTS TEST IS PRESENTED IN THIS REPORT AND
ASSOCIATED DRAWING 79E1511.
FOR ADDITIONAL REFERENCE SEE DRAWING 75D6503/2.*

25X1

1705
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 664-79 25 JUL 79 [] SEC CLASS: 13 MSN: 0007P ACCN: S088502 25X1

MISSILES, CSS-X-4 CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

AN UPDATED ANALYSIS OF THE CSS-X-4 ICBM IS PROVIDED IN THIS REPORT AND ASSOCIATED DRAWING 75C1506/1.
FOR ADDITIONAL REFERENCE SEE DRAWING 79C4513.
THIS REPORT SUPERSEDES PAR 75-575.*

AF PAR 661-79 28 AUG 79 [] SEC CLASS: 13 MSN: 0007P ACCN: S088503 25X1

ELECTRONICS, ICBM TYPE 3X GUIDANCE RLTD FACs UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25C COMIREX NO:

THE STATUS OF THE L INTERFEROMETER AT SPECIFIC TYPE 3X LAUNCH SITES IS GIVEN IN THIS REPORT.
PAR'S 70-678, 72-624, 75-644, 76-645, PARAGRAPH 3C(2) AND 76-670, PARAGRAPH 2C ARE UPDATED IN THIS
REPORT.*

AF PAR 602-79 12 JUL 79 [] SEC CLASS: 13 MSN: 0004P ACCN: S088506 25X1

HSINHUA SSM/SPACE TRACKING FACILITY CH 274605N 1111535E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 48-A1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

AN UPDATE OF THE XINHUA (HSIN-HUA) SSM/SPACE TRACKING FACILITY IS GIVEN IN THIS REPORT. INCLUDED IS
INFORMATION ON NEW ANTENNAS AND CHANGES IN THE OLD ONES AT THE FACILITY.
THIS REPORT SUPERSEDES PAR'S 78-549, PARAGRAPH 2A(4); 76-696, PARAGRAPH 2A(19); 75-571, PARAGRAPH
2A(18); AND 73-634, PARAGRAPH 2C.
DRAWINGS 79C6540 AND 79B6541 SUPPLEMENT THIS REPORT.*

AF PAR 612-79 27 JUN 79 [] SEC CLASS: 13 MSN: 0003P ACCN: S088507 25X1

ELECTRONICS, SH-EL-02 PLANAR APERTURE RADAR UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25A COMIREX NO:

AN UPDATED ANALYSIS OF THE SH-EL-02/FLAP LID RADAR IS GIVEN IN THIS REPORT WITH SPECIAL ATTENTION TO
THE BORESIGHT ELEVATION AND IDENTIFIABLE APERTURES.

1706
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT SUPERSEDES PARAGRAPH 2.B. OF PAR 76-646 AND IS KEYED TO DRAWING 79E1510.*

AF PAR 631-79 01 AUG 79 [] SEC CLASS: 13 MSN: 0012P ACCN: 508850A 25X1

TACHAITAN SSM SITE 1	WAC NO : []	BE/OBJ NO: []	CH 374709N 0952746E	NPIC NO : - 13-A	25X1
IDHS CODE: []	EPF CAT : 40	COMIREX NO: []			25X1
TACHAITAN SSM SITE 2	WAC NO : []	BE/OBJ NO: []	CH 373600N 0954242E	NPIC NO : - 13-B	25X1
IDHS CODE: []	EPF CAT : 40	COMIREX NO: []			25X1

AN INITIAL ANALYSIS OF TA-CHAI-TAN SSM LAUNCH SITES 1 AND 2, A CONSTRUCTION CHRONOLOGY FOR EACH SITE, AND THE IDENTIFICATION OF ANY GROUND SUPPORT EQUIPMENT IS GIVEN IN THIS REPORT. FOR ADDITIONAL REFERENCES SEE DRAWING 79D6556.*

AF PAR 655-79 17 AUG 79 [] SEC CLASS: 13 MSN: 0003P ACCN: 5088509 25X1

ELECTRONICS, POP-UP ANTENNA ICBM ASSOC SEARCH	UR
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25C
	NPIC NO : -
	COMIREX NO: []

A SEARCH FOR POSSIBLE POP-UP ANTENNAS ON TYPE 3C LAUNCH SILOS WAS PRECLUDED BY PHOTO QUALITY/RESOLUTION.*

AF PAR 648-79 20 AUG 79 [] SEC CLASS: 13 MSN: 0008P ACCN: 5088510 25X1

ELECTRONICS, GUIDANCE FACILITIES SS-20	UR
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40B
	NPIC NO : -
	COMIREX NO: []
UROVYANAYA MOBILE IRBM BASE 1	UR 512718N 1130402E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40B
	NPIC NO : - 53-M1
	COMIREX NO: []
UROVYANAYA MOBILE IRBM BASE 2	UR 512021N 1130114E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40B
	NPIC NO : - 53-N
	COMIREX NO: []
UROVYANAYA MOBILE IRBM BASE 3	UR 512600N 1130250E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40B
	NPIC NO : - 53-A8
	COMIREX NO: []
UROVYANAYA MOBILE IRBM BASE 4	UR 512253N 1125014E
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40B
	NPIC NO : - 53-P
	COMIREX NO: []
KAPUSTIN YAR MTC COMPLEX C SITE 1 SS-20 GDNC	UR 483658N 0461800E
WAC NO : []	BE/OBJ NO: []
	NPIC NO : - 10-A1

1707

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
KONKOVICHI MOBILE IRBM BASE		UR 521040N 0283445E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 137-A5	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
KOZHANOVICHI MOBILE IRBM BASE		UR 521127N 0274843E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 156-B3	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
MOZYR MOBILE IRBM BASE + TRAINING FACILITY		UR 520210N 0291108E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 110-E1	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
NOVOSIBIRSK MOBILE IRBM BASE 1		UR 551904N 0831001E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-K1	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
NOVOSIBIRSK MOBILE IRBM BASE 2		UR 552215N 0831401E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-K	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
NOVOSIBIRSK MOBILE IRBM BASE 3		UR 551940N 0825626E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-S2	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
POSTAVY MOBILE IRBM BASE		UR 550941N 0265346E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 58-D3	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
SMORGON MOBILE IRBM BASE 1		UR 543145N 0261720E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 68-A6	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
VERKHNYAYA SALDA MOBILE IRBM BASE 1		UR 580818N 0603213E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 29-E4	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1
YURYA MOBILE IRBM BASE 1		UR 590611N 0494531E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 18-I1	25X1
IDHS CODE: []	EPF CAT : 40B	COMIREX NO: []	25X1

AN ANALYSIS OF ALL GUIDANCE-RELATED FACILITIES SEEN AT SELECTED SS-20 MOBILE IRBM BASES, INCLUDING A DESCRIPTION OF ANY BUILDINGS WHERE LINES-OF-SIGHT ARE SEEN TO TERMINATE, IS PROVIDED IN THIS REPORT. THIS REPORT SUPERSEDES PARAGRAPHS 2A AND 2B OF PHOTO ANALYSIS REPORT 79-524. PHOTO ANALYSIS REPORT 78-721 (PARAGRAPH 3A (A)) AND BASIC IMAGERY INTERPRETATION REPORT RFB-22/0004/79 PROVIDE A DESCRIPTION OF THE PAYLOAD-ASSOCIATED HIGH-BAY BUILDING AT THOSE FACILITIES MENTIONED WHERE LINES-OF-SIGHT WERE SEEN TO TERMINATE.

AF PAR 657-79 05 SEP 79 [] SEC CLASS: 13 MSN: 0004P ACCN: S088512 25X1

Ostrov SSM TRAINING POSITION 2 SS-11 ACTIVITY UR 572310N 0281000E 25X1
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 153-B2

1708
TOP SECRET CHESS RUFF []

25X1
25X1

TOP SECRET CHESS RUFF

25X1

RUSS CODE: [] EPF CAT : 40A COMIREX NO: []
RIGA SSM TRAINING FACILITY SS-11 ACTIVITY UR 571120N 0242026F
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 63-G1
RUSS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1
25X1

AF PAR 646-79 31 AUG 79 [] SEC CLASS: 13 MSN: 0006P ACCN: 5088513

LONING ICBM SITE 2 CH 341702N 1113735E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 76-C2
RUSS CODE: [] EPF CAT : 40A COMIREX NO: []
LONING ICBM SITE 1 SILO CONSTRUCTION CH 342143N 1115045E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 76-E
RUSS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1
25X1
25X1

AN UPDATED ANALYSIS OF SSM LAUNCH SILOS UNDER CONSTRUCTION AT LO-NING SSM LAUNCH SITES 1 AND 2 IS PROVIDED IN THIS REPORT.
FOR ADDITIONAL REFERENCES SEE PAR 76-537 AND DRAWINGS 79D6562 AND 73E6504/4.*

AF PAR 653-79 22 AUG 79 [] SEC CLASS: 13 MSN: 0008P ACCN: 5088514

LENINGRAD AIRCRAFT ENGINE PLT 117 IZOTOV OKB UR 595851N 0302023E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 36-H
RUSS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

A DESCRIPTION OF NEW CONSTRUCTION AND BUILDING EXPANSION; DESCRIPTION OF PHYSICAL CHARACTERISTICS; STAGE OF CONSTRUCTION/COMPLETION; AND FUNCTIONAL ROLE OF CONSTRUCTION UNDERWAY OR COMPLETED AT LENINGRAD AIRCRAFT ENGINE PLANT 117 (IZOTOV OKB) SINCE PAR 77-625 IS GIVEN IN THIS REPORT.
THIS REPORT SUPERSEDES PAR 78-631, PARAGRAPH 3A OF PAR 77-625, AND PARAGRAPH 2C(2) OF PARS 77-733 AND 79-518 AND IS KEYED TO DRAWINGS 79C4532 AND 77C6519/2.*

25X1

1709
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

IDHS CODE: [Redacted]

EPF CAT : 40J

COMIREX NO: [Redacted]

25X1

USING [Redacted] THIS REPORT DETERMINES KITCHEN (AS-4)
MISSILE ACTIVITY ON AN, /OR AROUND BACKFIRE B, BLINDER AND BEAR C AIRCRAFT AT AKHTUBINSK/VLADIMIROVKA
AIRFIELD AND AREA AIRFIELD.*

25X1

[Large Redacted Area]

25X1

25X1

AF PAR

650-79 16 AUG 79

[Redacted]

SEC CLASS: 13

MSN:

0010P

AACN: S088519

25X1

SARY SHAGAN MTC COMPLEX B LAUNCHERS NEW

UR 460106N 0722804E

1710

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO:	NPIC NO :	- 50-B
IDHS CODE:	EPF CAT : 40E	COMIREX NO:	
SARY SHAGAN MTC COMPLEX F LAUNCHERS NEW		UR	462629N 0725108E
WAC NO :	BE/OBJ NO:	NPIC NO :	- 49-B6
IDHS CODE:	EPF CAT : 40E	COMIREX NO:	

25X1
25X1

25X1
25X1

INCLUDED IN THIS PAR ARE THE FOLLOWING: A SUMMARY OF SUSPECTED LAUNCH ACTIVITY AT THE SILOS AND SOFT LAUNCH SITE, SARY SHAGAN MTC LAUNCH COMPLEXES B AND F; A DESCRIPTION/COMPARISON OF THE PHYSICAL APPEARANCE OF OBSERVED MISSILE CANISTERS WHICH COULD POTENTIALLY BE UTILIZED IN THE SILOS; AND ADDITIONAL INFORMATION ON SILO DOORS SEALER RINGS AND ALIGNMENT POINTS. PAR 78-579 IS SUPERSEDED BY THIS REPORT. ADDITIONAL INFORMATION CAN BE OBTAINED FROM DRAWING 78E6514/1.*

AF PAR 663-79 05 SEP 79 SEC CLASS: 13 MSN: 0002P ACCN: 5088520 25X1

ELECTRONICS, ICDM TYPE 3X LCC	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	-
IDHS CODE:	EPF CAT : 25C	COMIREX NO:	

ALL PERTINENT KH COVERAGE THROUGH [REDACTED] WAS REVIEWED TO DETERMINE IF ANY ADDITIONS OR MODIFICATIONS HAD BEEN MADE TO THE LCC'S AS A RESULT OF THE CONSTRUCTION OF THE TYPE 3X LAUNCH CONTROL CENTER. PARs 70-693, 71-706 AND 78-540 AND DRAWINGS 70E3515, 71E3511 AND 77E1509/1 ARE REFERENCED.*

25X1

25X1

AF PAR 647-79 14 AUG 79 SEC CLASS: 13 MSN: 0005P ACCN: 5088522 25X1

1711
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1
25X1

SHUANGCHENG-TZU MTC RANGEHEAD RECEIVER	CH	405507N 1000830E
WAC NO :	BE/OBJ NO:	NPIC NO : - 9
IDHS CODE:	EPF CAT : 25C	COMIREX NO:
SHUANGCHENG-TZU MTC RANGEHEAD TRANSMITTER	CH	410917N 1001800E
WAC NO :	BE/OBJ NO:	NPIC NO : - 1-02
IDHS CODE:	EPF CAT : 25C	COMIREX NO:

25X1
25X1
25X1
25X1

THIS REPORT PROVIDES AN UPDATED PHOTO ANALYSIS OF SHUANG-CHENG-TZU MTC RANGEHEAD RECEIVER AND SHUANG-CHENG-TZU MTC RANGEHEAD TRANSMITTER. IT INCLUDES TABULATIONS (AZIMUTHS AND SIZES) OF THE COMMUNICATION ANTENNAS AT EACH FACILITY AND THE ANTENNA SUPPORT MASTS THAT ARE STILL STANDING AT THE WESTERN PORTION OF THE RANGEHEAD RECEIVING FACILITY.

THIS REPORT SUPERSEDES PARS 70-542, 69-633, AND 69-641; PORTIONS OF 74-623, 72-637, AND 71-561; AND DRAWINGS NUMBER 72B6534, 71C6515, AND 69B6570.*

AF PAR 630-79 23 JUL 79 SEC CLASS: 13 MSN: 0004P ACCN: S088523 25X1

LYUBERTSY HELICOPTER EXPERIMENTAL PLANT KAMOV	UR	554154N 0375242E
WAC NO :	BE/OBJ NO:	NPIC NO : - 94-A4
IDHS CODE:	EPF CAT : 056	COMIREX NO:

25X1
25X1

THIS REPORT AND DRAWING 77C6527/2 PROVIDES AN UPDATED ANALYSIS OF LYUBERTSY EXPERIMENTAL HELICOPTER PLANT KAMOV.

INFORMATION ON CHANGES IN PHYSICAL FACILITY RESOURCES, NEW CONSTRUCTION, BUILDING EXPANSION, CHANGES IN BOUNDARIES, AND DESCRIPTION AND LOCATION OF HARDWARE OBSERVED WITHIN THE FACILITY IS INCLUDED.

THIS REPORT IS AN UPDATE OF PAR 77-656 AND SUPERSEDES PAR 78-644, PARAGRAPH 2B(2) OF PAR 77-733, AND PARAGRAPH 2B(2) OF PAR 79-518.*

AF PAR 641-79 02 AUG 79 SEC CLASS: 13 MSN: 0006P ACCN: S088524 25X1

PERM AIRCRAFT ENGINE PLT STALIN SOLOVYEV OKB	UR	575848N 0561508E
WAC NO :	BE/OBJ NO:	NPIC NO : - 16-D
IDHS CODE:	EPF CAT : 056	COMIREX NO:

25X1
25X1

ALL PERTINENT KEYHOLE IMAGERY THROUGH MAY 1979 WAS EXAMINED TO PROVIDE AN UPDATED ANALYSIS OF PERM AIRCRAFT ENGINE PLANT STALIN 19 SOLOVYEV DESIGN BUREAU.

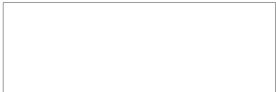
THIS PAR IS ASSOCIATED WITH DRAWING 71D6545 (REVISION 7) AND PAR 79 -642.

SUPERCEDED ARE: PAR 79-518, PARAGRAPH 2C(5); PAR 77-733, PARAGRAPH 2C (5); PAR 78-690, ENTIRE REPORT; AND PAR 77-715, ENTIRE REPORT. PAR 76-597 COMPLEMENTS THIS REPORT.*

AF PAR 640-79 14 AUG 79 SEC CLASS: 13 MSN: 0003P ACCN: S088525 25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT	UR	532053N 0501231E
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1712
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 17-A
 IUHS CODE: [] EPF CAT : 05G COMIREX NO: []
 KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231F
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 17-A
 IUHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1

25X1
25X1

THIS REPORT AND ASSOCIATED DRAWINGS 70D4546/4 AND 71D6523/7 PROVIDE AN UPDATED ANALYSIS OF KUYBYSHEV EXPMT AC AND RKT ENG PLANT SINCE PAR 78-678. A DESCRIPTION OF NEW CONSTRUCTION/BUILDING EXPANSION; CHANGES IN BOUNDARIES AND SUPPORT FACILITIES; AND THE LOCATION AND DESCRIPTION OF HARDWARE ITFMS (E.G. ENGINE SHIPPING CRATES OR CONTAINERS) AS WELL AS A TABULATION OF ROOF COVERAGE AND FLOORSPACE IS INCLUDED.
 *

AF PAR 634-00 24 JUL 79 [] SEC CLASS: 13 MSN: 0005P ACCN: 5088526 25X1

ZAPOROZHYE AIRCRAFT ENG PLANT 47B LOTAREV OKB UR 474928N 0351147E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47-E
 IUHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

ALL APPLICABLE KEYHOLE MISSIONS FROM DECEMBER 1977 THROUGH APRIL 1979 WERE EXAMINED TO PROVIDE AN UPDATE ON ZAPOROZHYE AIRCRAFT ENGINE PLANT 47B, LOTAREV OKB.
 THIS REPORT IS AN UPDATE OF PAR 76-580 AND SUPERSEDES PARS 77-709, 78-642, PARAGRAPH 2C(6) OF PAR 77-733 AND PARAGRAPH 2C(6) OF PAR 79-518.*

AF PAR 649-79 10 AUG 79 [] SEC CLASS: 13 MSN: 0003P ACCN: 5088527 25X1

DUBNO AIRFIELD NE FENCER A SU-19 UR 502645N 0255017E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 107
 IUHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

A REVIEW OF FENCER A AIRCRAFT ACTIVITY AT DUBNO AIRFIELD NORTHEAST WAS CONDUCTED TO ASCERTAIN THE EARLIEST DEPLOYMENT OF THE FENCER A, ANY MODIFICATIONS TO THE AIRCRAFT, EVIDENCE OF ARMAMENT, AIRCRAFT COUNTS, AND THE IDENTITY OF EXTERNAL STORES.
 ALL AVAILABLE KH COVERAGE FROM NOVEMBER 1978 THROUGH MAY 1979 WAS USED.*

AF PAR 639-79 08 AUG 79 [] SEC CLASS: 13 MSN: 0002P ACCN: 5088528 25X1

REPIKHOVO RADIO RELAY + RADCOM XMTR STATION UR 561407N 0380018E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 73-F
 IUHS CODE: [] EPF CAT : 25D COMIREX NO: []
 REPIKHOVO RADIO RELAY + RADCOM XMTR STATION UR 561407N 0380018E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 73-F
 IUHS CODE: [] EPF CAT : 25B COMIREX NO: []

25X1
25X1

25X1
25X1

1713
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT SUPERSEDES PAR 77-612, 13 JULY 1977.*

25X1

AF PAR 622-79 17 JUL 79 [] SEC CLASS: 13 MSN: [] 0003P ACCN: S088530 25X1

KAPUSTIN YAR MTC COMPLEX C SITE 1 EQUIP U/I UR 483658N 0461800E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 10-A1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1

DRAWINGS 79B4530 AND 76C1502 SUPPLEMENT THIS REPORT.*

25X1

AF PAR 626-79 25 JUL 79 [] SEC CLASS: 13 MSN: [] 0004P ACCN: S088532 25X1

NASOSNY AIRFIELD FOXBAT A MIG-25 MODIFS SRCH UR 403534N 0493322E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 43
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES THE RESULTS OF A REVIEW OF KH MISSION COVERAGE OF NASOSNY AIRFIELD TO REPORT ANY EVIDENCE OF A FOXBAT A MODIFICATION AND/OR MAJOR RETROFIT PROGRAM AT NASOSNY.

1714
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

NO MODIFICATION OR RETROFITTING PROGRAM ASSOCIATED WITH FOXBAT AIRCRAFT WAS IDENTIFIED AT NASOSNY AIRFIELD DURING THE REPORTING PERIOD. THE REPORT INCLUDES A CHRONOLOGICAL TABULATION OF FOXBAT ASSOCIATED ACTIVITY OBSERVED AT NASOSNY AIRFIELD AND MAINTENANCE FACILITY FROM

25X1

AF PAR 645-79 10 AUG 79 SEC CLASS: 13 MSN: 0005P ACCN: S088533

25X1

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 300 UR 554254N 0373415E
WAC NO : BE/OBJ NO: NPIC NO : - 94-A3
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS REPORT DESCRIBES NEW CONSTRUCTION AND BUILDING EXPANSION AT MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT LUZNETSKAYA 300. DESCRIPTIONS OF CHANGES TO TEST FACILITIES AND SUPPORT FACILITIES AT THE COMPLEX ARE ALSO INCLUDED. THIS REPORT SUPPLEMENTS PAR 77-720 AND SUPERSEDES PAR 78-648, AND PARAGRAPH 2C(3) OF PARS 77-733 AND 79-518.

DRAWING 71D6522/7 IS KEYED TO THIS REPORT.*

AF PAR 652-79 08 AUG 79 SEC CLASS: 13 MSN: 0002P ACCN: S088534

25X1

AZ ZAQAZIQ AIRFIELD HAY-SERIES ANTENNAS EG 303550N 0313956E
WAC NO : BE/OBJ NO: NPIC NO : - 116
IDHS CODE: EPF CAT : 25H COMIREX NO:
AL QAHIRAH AIRFIELD WEST HAY-SERIES ANTENNAS EG 300706N 0305500E
WAC NO : BE/OBJ NO: NPIC NO : - 2-A5
IDHS CODE: EPF CAT : 25H COMIREX NO:
AL QAHIRAH ALMAZA AIRFIELD HAY-SERIES ANTENNA EG 300536N 0312128E
WAC NO : BE/OBJ NO: NPIC NO : - 2-A
IDHS CODE: EPF CAT : 25H COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1

25X1

1715
TOP SECRET CHESS RUFF

25X1
25X1

Page Denied

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR D3503-1-79 12 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088547 25X1

MISSILES, ICBM TYPE 3X SILO UPPER DETAILS UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 77-573 AND SUPERSEDES DRAWING 77D3503.*

AF ENDR C1512-79 01 AUG 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S088548 25X1

MISSILES, PAYLOAD TRANSPORTER UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40I COMIREX NO:

25X1

1718
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

THIS DRAWING SUPPLEMENTS PAR 79-646.*

AF ENDR C1015-79 24 JUL 79 SEC CLASS: 04 MSN: 0001P ACCN: S088550

MISSILES, CSS-1 CH
 WAC NO : BE/OBJ NO: NPIC NO : -
 IUHS CODE: EPF CAT : 40B COMIREX NO:

AF ENDR E6514-1-78 07 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088551 25X1

SARY SHAGAN MTC COMPLEX B UR 460106N 0722804F
 WAC NO : NPIC NO : - 50-B 25X1
 IUHS CODE: EPF CAT : 40E COMIREX NO: 25X1

SARY SHAGAN MTC COMPLEX F UR 462629N 0725108E
 WAC NO : NPIC NO : - 49-B6 25X1
 IUHS CODE: EPF CAT : 40E COMIREX NO: 25X1

THIS DRAWING SUPPLEMENTS PAR 78-579.*

AF ENDR E1504-4-75 29 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088552 25X1

MISSILES, ICBM TYPE 3X SILO UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IUHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 77-573 AND SUPERSEDES DRAWING 75E1504/3.*

AF ENDR E1515-79 24 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088553 25X1

MISSILES, ICBM TYPE 36 SILO MODIFIED CONST UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IUHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPERSEDES DRAWING 77E1519 AND SUPPLEMENTS PAR 79-662 AND DRAWINGS 77D3504/2 AND 79D3508.*

AF ENDR D3504-2-77 24 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088554 25X1

MISSILES, ICBM TYPE 36 SILO UPPER DETAILS UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IUHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 79-662 AND DRAWINGS 79E3508 AND 79E1515.*

1719
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR C6519-2-77 17 AUG 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088555 25X1

LENINGRAD AIRCRAFT ENGINE PLT 117 IZOTOV OKB UR 595851N 0302023E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 36-H
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-625 AND 79-653 AND SUPERCEDES DRAWING 71B6531/5.*

AF ENDR E6516-2-74 18 MAY 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088556 25X1

LIENKENGWANG SSM COMPLEX CH 301200N 1174330E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 124
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 74-602, 76-582 AND 79-583 AND DRAWING 72E6547/3, PART 1.*

AF ENDR E6547-3-72 18 MAY 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088557 25X1

LIENKENGWANG SSM COMPLEX CH 301200N 1174330E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 124
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 74-602, 76-582, 79-583 AND DRAWING 74E6516/2, PART 2.*

25X1

AF ENDR D6556-79 12 JUN 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088559 25X1

TACHAITAN SSM SITE 1 CH 374709N 0952746E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 13-A
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []
TACHAITAN SSM SITE 2 CH 373600N 0954242E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 13-B
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-631.*

25X1

1720
TOP SECRET CHESS RUFF

25X1
25X1



TOP SECRET CHESS RUFF



25X1



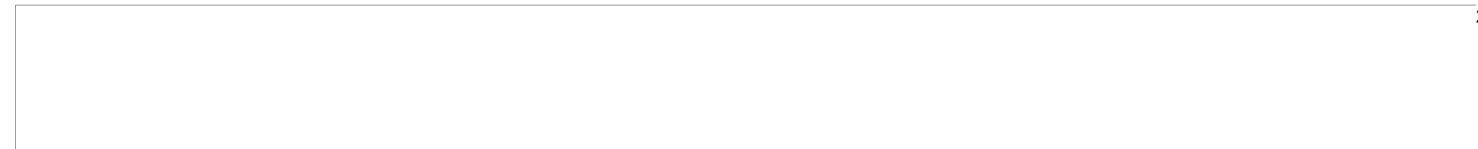
25X1

AF ENDR E1505-79 12 JUN 79 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: 5088561 25X1

MISSILES, ICBM TYPE SX SILO MODIFIED UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 79-534.*



25X1

AF ENDR D3505-79 22 JUN 79 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: 5088563 25X1

NIZHNYAYA SALDA ROCKET ENGINE TEST FACILITY UR 580930N 0605602F
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 29-F
IDHS CODE: [REDACTED] EPF CAT : 40E COMIREX NO: [REDACTED]

THIS DRAWING SUPPLEMENTS PAR 79-613.*

AF ENDR B4529-1-79 29 JUN 79 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: 5088564 25X1

MOSKVA MISSILE + SPACE DEV CTR VACUUM CHAMBER UR 555517N 0374805F
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 47
IDHS CODE: [REDACTED] EPF CAT : 40L COMIREX NO: [REDACTED]
MOSKVA MISSILE + SPACE DEV CTR VACUUM CHAMBLK UR 555517N 0374805E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 47
IDHS CODE: [REDACTED] EPF CAT : 40H COMIREX NO: [REDACTED]

THIS DRAWING SUPPLEMENTS PAR 79-578.*

AF ENDR C1506-1-75 79 JUN 79 [REDACTED] SEC CLASS: 13 MSN: 0001P

ACCN: 5088565 25X1

1721
TOP SECRET CHESS RUFF



25X1

25X1



TOP SECRET CHESS RUFF



25X1
25X1

MISSILES, CSS-X-4
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40A

CH
NPIC NO : -
COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 79-664 AND DRAWING 79C4513 AND SUPERSEDES DRAWINGS 74A1513, 74C1509, 74C1510, AND 73C1501.*

AF ENDR D6525-2-77 22 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088566 25X1

YEDROVO ICBM RTP GUIDANCE/CALIBRATION FAC

UR 575216N 0333858E
NPIC NO : - 72-A3
COMIREX NO:

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25C

THIS DRAWING SUPPLEMENTS PARS 78-734 AND 70-654.*

AF ENDR D6601-79 22 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088567 25X1

NIZHNYAYA SALDA ROCKET ENGINE TEST FACILITY

UR 580930N 0605602E
NPIC NO : - 29-F
COMIREX NO:

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40E

THIS DRAWING SUPPLEMENTS PAR 79-613.*

AF ENDR B6527-1-71 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088568 25X1

NIZHNYAYA SALDA ROCKET ENGINE TEST FAC CONST

UR 580930N 0605602E
NPIC NO : - 29-F
COMIREX NO:

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40E

THIS DRAWING SUPPLEMENTS PARS 69-625, 71-581, AND 79-613.*

AF ENDR D3508-79 24 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088569 25X1

MISSILES, ICBM TYPE 36 SILO UPPER DETAILS

UR
NPIC NO : -
COMIREX NO:

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40A

THIS DRAWING SUPPLEMENTS PAR 79-662 AND DRAWING 77D3504/2.*

AF ENDR E6563-3-69 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088570 25X1

NIZHNYAYA SALDA ROCKET ENGINE TEST FACILITY

UR 580930N 0605602E
NPIC NO : - 29-F

WAC NO :
IDHS CODE:

BE/OBJ NO:

1722
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: 40851 EPF CAT : 40E COMIREX NO: []

25X1

THIS DRAWING SUPPLEMENTS PARS 69-625, 71-581, 73-656, AND 79-613.*

AF ENDR 61516-79 13 SEP 79 [] SEC CLASS: 13 MSN: [] 0001P

ACCN: S088571 25X1

MISSILES, ICBM TYPE 36 SILO DOOR HINGE MECH UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 79-662.*

AF ENDR C4532-79 14 AUG 79 [] SEC CLASS: 13 MSN: 0001P

ACCN: S088572 25X1

LENINGRAD AIRCRAFT ENG PLT 117 TEST CELL BLDG UR 595851N 0302023E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 36-H
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1

25X1

THIS DRAWING SUPPLEMENTS PARS 77-625 AND 79-653 AND SUPERSEDES DRAWING 69B4563/2.

AF ENDR D3504-79 13 JUN 79 [] SEC CLASS: 13 MSN: 0001P

ACCN: S088573 25X1

MISSILES, ICBM TYPE 3X SILO UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40A COMIREX NO:

AF ENDR E6525-79 01 JUN 79 [] SEC CLASS: 13 MSN: 0001P

ACCN: S088574 25X1

MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88 UR 555517N 0374805E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []
MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88 UR 555517N 0374805E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 47
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

25X1

25X1

THIS DRAWING SUPPLEMENTS PAR 79-578 AND SUPERSEDES DRAWING 75E6520.*

AF ENDR D6546-79 22 JUN 79 [] SEC CLASS: 13 MSN: 0001P

ACCN: S088575 25X1

WIZHIYAYA SALDA ROCKET ENGINE TEST FACILITY UR 580930N 0605602E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 29-F
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

THIS DRAWING SUPPLEMENTS PAR 79-613.*

AF	ENDR	D4505-2-70	29 JUN 79		SEC CLASS: 13	MSN:	0001P	ACCN: S088576	25X1
		MOSKVA MISSILE + SPACE DEV CTR RSCH INST 88		UR	555517N	0374805E			
		WAC NO : []	BE/OBJ NO: []		NPIC NO : -	47			25X1
		IDHS CODE: []	EPF CAT : 40E		COMIREX NO: []				25X1
		MOSKVA MISSILE + SPACE DEV CTR RSCH INST 88		UR	555517N	0374805E			
		WAC NO : []	BE/OBJ NO: []		NPIC NO : -	47			25X1
		IDHS CODE: []	EPF CAT : 40H		COMIREX NO: []				25X1

THIS DRAWING SUPPLEMENTS PAR 79-578.*

AF	ENDR	E6538-79	01 JUN 79		SEC CLASS: 13	MSN:	0001P	ACCN: S088578	25X1
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AF	ENDR	E6538-79	01 JUN 79		SEC CLASS: 13	MSN:	0001P	ACCN: S088578	25X1
		TYURATAM/TARTUGAY MTC RADAR TEST FAC SUSP		UR	442953N	0661406E			
		WAC NO : []	BE/OBJ NO: []		NPIC NO : -	30			25X1
		IDHS CODE: []	EPF CAT : 25C		COMIREX NO: []				25X1
		TYURATAM/TARTUGAY MTC RADAR TEST FAC 85M TWR		UR	443134N	0661516E			
		WAC NO : []	BE/OBJ NO: []		NPIC NO : -				25X1
		IDHS CODE: []	EPF CAT : 25C		COMIREX NO: []				

THIS DRAWING SUPPLEMENTS PAR 79-598.*

AF	ENDR	D6524-2-77	22 AUG 79		SEC CLASS: 13	MSN:	0001P	ACCN: S088579	25X1
		TATISHCHEVO ICBM TRNG SITE 35X GDNC/CALIB FAC		UR	514157N	0453248E			
		WAC NO : []	BE/OBJ NO: []		NPIC NO : -	49-D1			25X1
		IDHS CODE: []	EPF CAT : 25C		COMIREX NO: []				25X1

THIS DRAWING SUPPLEMENTS PARS 78-734 AND 79-654.*

AF	ENDR	C6557-79	20 JUL 79		SEC CLASS: 13	MSN:	0001P	ACCN: S088580	25X1
		SUNGLIN SSM/SPACE TRACKING FACILITY		CH	275341N	1021408E			

1724
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 25C

NPIC NO : - 7-K
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-632.*

AF ENDR 64530-79 29 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088581 25X1

KAPUSTIN YAR MTC CPLX C SITE 1 CYLINDER U/I UR 483658N 0461800E

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 40E

NPIC NO : - 10-A1
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-622.*

25X1

AF ENDR 66541-79 01 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088583 25X1

HSINHUA SSM/SPACE TRACKING FACILITY AREA B CH 274605N 1111535E

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 25C

NPIC NO : - 48-A1
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-602.*

AF ENDR 66540-79 01 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088584 25X1

HSINHUA SSM/SPACE TRACKING FACILITY AREA A CH 274605N 1111535E

WAC NO :
IUHS CODE:

BE/OBJ NO:
EPF CAT : 25C

NPIC NO : - 48-A1
COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-602.*

25X1

1725
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWING 71E1019 AND 79D4525.*

AF ENDR E1510-79 14 JUN 79 SEC CLASS: 13 MSN: 0001P ACCN: S088586 25X1

ELECTRONICS, SH-EL-02 PLANAR APERTURE RADAR UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS DRAWING SUPPLEMENTS PAR 79-612 AND SUPERSEDES DRAWING 77D1502.*

AF ENDR D4506-1-69 23 JUL 79 SEC CLASS: 13 MSN: 0001P ACCN: S088587 25X1

PLESETSK MTC ICBM SITE 21 TEL U/I UR 625823N 0412408E
WAC NO : BE/OBJ NO: NPIC NO : - 27-R5
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS DRAWING SUPERSEDES DRAWING 69D4506 AND SUPPLEMENTS PAR 69-534 AND DRAWING 66E1013.*

AF ENDR B3506-79 10 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088588 25X1

AIRCRAFT, FOXBAT MODIFIED FUEL TANK UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWING 78E4512.*

AF ENDR D6523-7-71 27 JUL 79 SEC CLASS: 13 MSN: 0001P ACCN: S088589 25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231E
WAC NO : BE/OBJ NO: NPIC NO : - 17-A
IDHS CODE: EPF CAT : 05G COMIREX NO:
KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231E
WAC NO : BE/OBJ NO: NPIC NO : - 17-A
IDHS CODE: EPF CAT : 40E COMIREX NO:

THIS DRAWING SUPPLEMENTS DRAWING 70D4546/4 AND PARS 76-599, 78-678, AND 79-640, AND SUPERSEDES DRAWINGS 65D6549 AND 66C6573.*

AF ENDR D6522-7-71 03 AUG 79 SEC CLASS: 13 MSN: 0001P ACCN: S088590 25X1

1726
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 300 UR 554254N 0373415E
WAC NO : BE/OBJ NO: NPIC NO : - 94-A3
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 77-720 AND 79-645, AND SUPERSEDES DRAWING 67C6553.*

AF ENDR D6560-79 18 JUL 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088591 25X1

TYURATAM MTC CONSTRUCTION NEW UR 455637N 0632755E
WAC NO : BE/OBJ NO: NPIC NO : - 6
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

AF ENDR C6527-2-77 12 JUN 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088592 25X1

LYUBERTSY HELICOPTER EXPERIMENTAL PLANT KAMOV UR 554154N 0375242E
WAC NO : BE/OBJ NO: NPIC NO : - 94-A4
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS DRAWING SUPERSEDES DRAWING 70C6587/4 AND SUPPLEMENTS PARS 77-656 AND 79-630.*

AF ENDR C6534-1-78 27 JUL 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088593 25X1

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 165 UR 554935N 0373935E
WAC NO : BE/OBJ NO: NPIC NO : - 45-B5
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 78-653 AND 79-636, AND SUPERSEDES DRAWINGS 71C6520/5 AND 70B4501/2.*

AF ENDR D6530-8-71 20 JUL 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088594 25X1

ZAPOROZHYE AIRCRAFT ENG PLANT 478 LOTAREV OKB UR 474928N 0351147E
WAC NO : BE/OBJ NO: NPIC NO : - 47-E
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

THIS DRAWING SUPERSEDES DRAWING 67C6575 AND SUPPLEMENTS PARS 69-672, 70-700, 71-598, 76-580, AND 79-634.*

AF ENDR C1513-79 14 AUG 79 SEC CLASS: 13 MSN: 0001P

ACCN: S088595 25X1

AKHTUBINSK/VLADIMIROVKA AIRFIELD MISSILES U/I UR 481838N 0461424E
WAC NO : BE/OBJ NO: NPIC NO : - 18-B1
IDHS CODE: EPF CAT : 05A COMIREX NO:
AKHTUBINSK/VLADIMIROVKA AIRFIELD MISSILES U/I UR 481838N 0461424E

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 18-B1
IDHS CODE: [] EPF CAT : 40I COMIREX NO: []

25X1
25X1

AF ENDR D4546-4-70 27 JUL 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088596

25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 17-A
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 17-A
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

25X1
25X1

THIS DRAWING SUPPLEMENTS PARS 76-599, 78-678 AND 79-640.*

AF ENDR C6547-79 25 JUN 79 [] SEC CLASS: 13 MSN: [] 0001P ACCN: S088597

25X1

SULO SSM/SPACE TRACKING FACILITY CH 392340N 0761220E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 11-K
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-599.*

25X1

1728
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IAR S001-79 JUN 79 SEC CLASS: 14D MSN: 0074P ACCN: S088607 25X1

MISSILES, ACTIVITY SUMMARY SAL RELATED UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 40 COMIREX NO:
 SHIPS, ACTIVITY SUMMARY SAL RELATED UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 75D COMIREX NO:
 AIRCRAFT, ACTIVITY SUMMARY SAL RELATED UR
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS REPORT IS THE FIRST IN A SERIES OF SUMMARY REPORTS ON SAL-RELATED ACTIVITIES TO BE DONE BY THE NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER. THE FIRST SECTION OF THIS REPORT DISCUSSES STRATEGIC LAND-BASED MISSILES (OFFENSIVE AND DEFENSIVE) AND COVERS THE PERIOD FROM 16 MARCH THROUGH 31 MAY 1979. THIS SECTION UPDATES THE FOLLOWING REPORT: CIA/NFAC/OIA, IS 79-10074K, SUMMARY OF SAL-RELATED ACTIVITIES (MISSILES), 10 SEPTEMBER-15 MARCH 1979 (S), DATED 25 APRIL 1979 (TOP SECRET RUFF

25X1

25X1

THE SECOND SECTION OF THIS REPORT DISCUSSES SUBMARINE-LAUNCHED BALLISTIC MISSILES AND COVERS THE PERIOD FROM 1 FEBRUARY THROUGH 31 MAY 1979. THIS SECTION UPDATES THE FOLLOWING REPORT: CIA/NFAC/OIA, IS 79-10075J, SUMMARY OF SAL-RELATED SOVIET NAVAL ACTIVITY, 1 OCTOBER 1978-31 JANUARY 1979 (C), DATED 20 APRIL 1979 (TOP SECRET RUFF

25X1

25X1

THE THIRD SECTION DISCUSSES LONG-RANGE AVIATION AND COVERS THE PERIOD FROM 1 JANUARY THROUGH 31 MAY 1979. THIS IS THE FIRST REPORT OF THIS NATURE TO BE DONE ON LONG-RANGE AVIATION. THE INFORMATION IN THIS REPORT WAS OBTAINED FROM THE DATE OF INFORMATION IN PORTIONS OF THIS REPORT MAY EXTEND BEYOND 31 MAY IN ORDER TO INCLUDE PERTINENT SAL-RELATED ACTIVITY. IN THESE INSTANCES, THE DATES ARE INCLUDED IN THE APPROPRIATE SECTION.

25X1

IT IS ANTICIPATED THAT FUTURE REPORTS WILL BE PUBLISHED ON A QUARTERLY BASIS AND THE CONTENT WILL CHANGE TO COMPLY WITH SALT II REQUIREMENTS.

DIA IIM 501-73419-79 15 OCT 79 SEC CLASS: 14B MSN: 0002P ACCN: S088608 25X1

1729 TOP SECRET CHESS RUFF

25X1 25X1

TOP SECRET CHESS RUFF

25X1

VOLGOGRAD AMMUNITION + TANK DEPOT DA1/D01

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

UR 484212N 0442306E
NPIC NO : - 16-L
COMIREX NO:

25X1
25X1

DIA IIM 5B1-73427-79 11 OCT 79 SEC CLASS: 14B MSN: 0002P

ACCN: 5088609

25X1

IKOVKA ORDNANCE DEPOT D01

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

UR 553553N 0645748E
NPIC NO : - 4
COMIREX NO:

25X1
25X1

25X1

DIA IIM 5B1-73431-79 12 OCT 79 SEC CLASS: 14B MSN: 0003P

ACCN: 5088611

25X1

WARSZAWA U/I INSTALLATION MILITARY POSS

WAC NO : 0168
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35A

PL 521717N 0210302E
NPIC NO : -
COMIREX NO:

25X1
25X1

DIA IIM 5B1-73424-79 15 OCT 79 SEC CLASS: 14B MSN: 0003P

ACCN: 5088613

25X1

PERM ORDNANCE DEPOT CENTRAL D01

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

UR 575930N 0561601E
NPIC NO : - 16-X
COMIREX NO:

25X1
25X1

1730
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B1-73446-79 15 OCT 79 [] SEC CLASS: 14B MSN: [] 0002P ACCN: S088614 25X1

VOZNESENSK ORDNANCE DEPOT D01

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 79-C
IUHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

DIA IIM 5B1-73451-79 17 OCT 79 [] SEC CLASS: 14 MSN: [] 0005P ACCN: S088615 25X1

PETROPAVLOVSK ARMY BARRACKS AL24

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 11-T2
IUHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

CIA INFR IS10164J-79 28 SEP 79 [] SEC CLASS: 24 MSN: 0007P ACCN: S088617 25X1

MILITARY, 65TH AAA DIVISION KUNMING MR CH
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 35D COMIREX NO: []

THE 65TH INDEPENDENT ANTI-AIRCRAFT ARTILLERY (AAA) DIVISION IS DEPLOYED IN SOUTHEASTERN YUNNAN PROVINCE, KUNMING MILITARY REGION. THE DIVISION IS TACTICALLY DEPLOYED TO DEFEND TWO AIRFIELDS THAT ARE 50 KILOMETERS APART. THE DIVISION HAS 14 BATTERIES DEPLOYED AT MENGZI (MENG-TZU) AIRFIELD AND SEVEN BATTERIES DEPLOYED TO DEFEND THE AIRFIELD AT PINGYUANJIE (PING-YUAN-CHIEH).
[] BUT FROM PHOTOGRAPHY THE NUMBER AND COMPOSITION OF REGIMENTS COULD NOT BE DETERMINED.

25X1
25X1

CIA INFR IS10162J-79 28 SEP 79 [] SEC CLASS: 24 MSN: 0007P ACCN: S088618 25X1

MILITARY, 4TH ARTILLERY DIVISION KUNMING MR CH
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 35D COMIREX NO: []

THE 4TH ARTILLERY DIVISION IS DEPLOYED IN CENTRAL YUNNAN PROVINCE, KUNMING MILITARY REGION. THE DIVISION HAS THREE ARTILLERY REGIMENTS, TWO OF WHICH ARE NEAR KUNMING CITY AND THE THIRD NEAR QUJING (CH'U

1731

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25A1

CHING). EACH HAS THREE BATTALIONS ORGANIZED INTO THREE BATTERIES OF FOUR WEAPONS EACH. AT ONE REGIMENT A FULL COMPLEMENT OF 152-MM GUN HOWITZERS HAS BEEN OBSERVED ON PHOTOGRAPHY. OIA HAS NOT OBSERVED A FULL TO+E COMPLEMENT OF GUNS AT THE OTHER TWO REGIMENTS. HOWEVER, THERE IS SUFFICIENT COVERED STORAGE AT EACH INSTALLATION TO HOUSE A FULL COMPLEMENT OF EQUIPMENT. A MULTIPLE ROCKET LAUNCHER REGIMENT FOR THIS DIVISION COULD NOT BE IDENTIFIED. ALL OF THE INSTALLATIONS ARE RAIL SERVED.

CIA INFR IS10152K-79 26 SEP 79 [] SEC CLASS: 13 MSN: 0013P ACCN: S088619 25X1

SALDANHA BAY POL STORAGE			SF 325945S 0180200E
WAC NO :	[]	BE/OBJ NO: []	NPIC NO : -
IDHS CODE:	[]	EPF CAT : 80A	COMIREX NO: []
SASOLBURG POL STORAGE			SF 264810S 0275105E
WAC NO :	[]	BE/OBJ NO: []	NPIC NO : -
IDHS CODE:	[]	EPF CAT : 80A	COMIREX NO:
DURBAN POL STORAGE BP SHELL 1			SF 295830S 0305800E
WAC NO :	[]	BE/OBJ NO: []	NPIC NO : -
IDHS CODE:	[]	EPF CAT : 80A	COMIREX NO:
DURBAN POL STORAGE AREA LOUIS BOTHA 2			SF 295830S 0305650E
WAC NO :	[]	BE/OBJ NO: []	NPIC NO : -
IDHS CODE:	[]	EPF CAT : 80A	COMIREX NO:
CAPE TOWN POL STORAGE 2 MILNERTON CALTEX			SF 335100S 0183240E
WAC NO :	[]	BE/OBJ NO: []	NPIC NO : -
IDHS CODE:	[]	EPF CAT : 80A	COMIREX NO:
CAPE TOWN POL STORAGE 1 MILNERTON CALTEX			SF 335000S 0183200E
WAC NO :	[]	BE/OBJ NO: []	NPIC NO : -
IDHS CODE:	[]	EPF CAT : 80A	COMIREX NO:

25X1
25X1
25X1
25X1
25X1
25X1
25X1

TO AID IN ASSESSING SOUTH AFRICA'S ABILITY TO DEAL WITH THE DECEMBER 1978 OIL CUTOFF BY IRAN, OIA HAS STUDIED PHOTOGRAPHY OF FIVE OF SOUTH AFRICA'S MAJOR POL TANK FARMS TO DETERMINE THEIR STORAGE CAPACITY AND COMPARE THEIR ACTUAL HOLDINGS AS OBSERVED IN MID-1979 WITH THOSE SEEN IN THE 1977-78 PERIOD. THESE TANK FARMS -- AT CAPE TOWN, DURBAN, AND SASOLBURG -- ARE THOUGHT TO REPRESENT AN IMPORTANT PART OF SOUTH AFRICA'S EFFORT TO STOCKPILE CRUDE OIL SUPPLIES.

THE TOTAL CAPACITY OF THE 108 FLOATING ROOF TANKS AT THE FIVE TANK FARMS IS APPROXIMATELY 27.37 MILLION BARRELS OF OIL. A COMPARISON OF 1977-78 IMAGERY WITH JULY 1979 IMAGERY SHOWS AN OVERALL DECREASE OF APPROXIMATELY 30 PERCENT IN HOLDINGS AT THESE TANK FARMS. THE 1977-78 HOLDINGS WERE APPROXIMATELY 22.63 MILLION BARRELS AND THE JULY 1979 HOLDINGS WERE 15.74 MILLION BARRELS. AUGUST AND SEPTEMBER 1979 COVERAGES, HOWEVER, SHOW INCREASED HOLDINGS AT ALL LOCATIONS WHEN COMPARED TO JULY 1979. BECAUSE OF LIMITED IMAGERY DURING PREVIOUS YEARS OIA DOES NOT KNOW TO WHAT EXTENT THESE CHANGES REPRESENT SEASONAL FLUCTUATION.

CIA INFR IS10151K-79 20 SEP 79 [] SEC CLASS: 13 MSN: 0019P ACCN: S088620 25X1

MILITARY, COMBAT BRIGADES ORG/EQUIP HOLDINGS AG

1732
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 35 COMIREX NO:

WHAT APPEARS TO BE THE MAJOR ELEMENTS OF 14 COMBAT BRIGADES IN ALGERIA HAVE BEEN IDENTIFIED ON SATELLITE PHOTOGRAPHY ACQUIRED FROM JANUARY 1977 THROUGH JUNE 1979. THESE INCLUDE EIGHT MOTORIZED INFANTRY BRIGADES, FOUR MECHANIZED INFANTRY BRIGADES, AN ARMORED BRIGADE, AND A POSSIBLE AIRMOBILE/SPECIAL FORCES BRIGADE. ALL OF THE BRIGADES ARE IN NORTHERN AND WESTERN ALGERIA, WITH MOST OF THE BRIGADES ALONG THE ALGERIAN/MOROCCAN BORDER. THERE ARE AT LEAST 25 ADDITIONAL INFANTRY BATTALIONS GARRISONED AT INSTALLATIONS THROUGHOUT THE COUNTRY.

INFORMATION ON THE DISPOSITION OF THE ALGERIAN ARMY IS OUT OF DATE. IN ORDER TO COMPILE A PHOTOGRAPHICALLY DERIVED ALGERIAN ARMY ORDER OF BATTLE AND INSTALLATION LIST, ALL SATELLITE PHOTOGRAPHY ACQUIRED FROM EARLY 1977 TO MID-1979 WAS ANALYZED. A LACK OF COLLATERAL INFORMATION AND INCOMPLETE PHOTOGRAPHIC COVERAGE HAMPERED OIA'S EFFORTS TO COMPILE A COMPLETE ORDER OF BATTLE. INCLUDED AS REFERENCES ARE TWO PREVIOUSLY COMPLETED OIA STUDIES ON ALGERIAN GROUND FORCES.

CIA INFR IS10148-79 21 SEP 79 SEC CLASS: 05 MSN: 0015P ACCN: S088621

BALLESH PETROLEUM REFINERY	AL 403615N 0194535E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 288
IUHS CODE: []	EPF CAT : 30B	COMIREX NO:
BULGIZE ORE PROCESSING PLANT	AL 412834N 0201220E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IUHS CODE: []	EPF CAT : 30B	COMIREX NO:
BURREL INDUSTRIAL FACILITY U/I	AL 413438N 0195800E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IUHS CODE: []	EPF CAT : 10B	COMIREX NO:
BURREL INDUSTRIAL FACILITY U/I	AL 413438N 0195800E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IUHS CODE: []	EPF CAT : 30	COMIREX NO:
DURRES INDUSTRIAL AREA	AL 411905N 0192715E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 20
IUHS CODE: []	EPF CAT : 30	COMIREX NO:
DURRES PORT FACILITIES EXPANSION ACTIVITY	AL 411833N 0192716E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 20-A
IUHS CODE: []	EPF CAT : 75I	COMIREX NO: []
ELBASAN IRON + STEEL PLANT	AL 410452N 0200118E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IUHS CODE: []	EPF CAT : 30C	COMIREX NO:
FIER NITROGEN FERTILIZER PLANT	AL 404225N 0193305E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 241-D
IUHS CODE: []	EPF CAT : 30F	COMIREX NO: []
FIER PETROLEUM REFINERY	AL 404220N 0193306E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 241

1733

TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 30B	COMIREX NO:
FIERZE HYDROELECTRIC POWER PLANT		AL 4215 N 02002 E
WAC NO : 0322	BE/OBJ NO:	NPIC NO : -
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:
LAC CHEMICAL + COPPER PLANT		AL 413942N 0194208E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 78-C1
IDHS CODE: []	EPF CAT : 30F	COMIREX NO: []
STALIN PETROLEUM REFINERY		AL 404817N 0195435E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 43
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:
VALIAS COAL COLLIERY		AL 412245N 0194657E
WAC NO : 0322	BE/OBJ NO:	NPIC NO : -
IDHS CODE: []	EPF CAT : 30A	COMIREX NO:
VLORE CHEMICAL FERTILIZER PLANT		AL 402825N 0192713E
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 101-E3
IDHS CODE: []	EPF CAT : 30F	COMIREX NO:
SHKODER INDUSTRIAL AREA		AL 420455N 0193206E
WAC NO : 0322	BE/OBJ NO:	NPIC NO : -
IDHS CODE: []	EPF CAT : 30	COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

IN 1978 THE CHINESE TERMINATED A PROGRAM IN WHICH THEY WERE HELPING ALBANIA DEVELOP ITS INDUSTRIAL BASE. A SAMPLING OF THE INDUSTRIAL FACILITIES BEING BUILT OR EXPANDED WITH CHINESE AID HAS BEEN EXAMINED ON OVERHEAD IMAGERY OF MAY 1979 TO DETERMINE WHETHER THE ALBANIANS HAVE CONTINUED THE CONSTRUCTION AND OPERATION OF THE FACILITIES FOLLOWING THE CHINESE PULLOUT. TWELVE CONSTRUCTION PROJECTS, SELECTED BY THE OFFICE OF ECONOMIC RESEARCH, HAVE BEEN EXAMINED, AND IT IS APPARENT THAT THE ALBANIANS HAVE BEEN ABLE TO CONTINUE WORK ON THE PROJECTS. CONSTRUCTION HAS CONTINUED AT A HYDROELECTRIC PLANT AT FIERZE, A CHEMICAL AND COPPER PLANT AT LAC, A COAL COLLIERY AT VALIAS, PORT AND INDUSTRIAL FACILITIES AT DURRES, AND AN IRON AND STEEL PLANT, WHERE NUMEROUS ADDITIONS ARE UNDERWAY ALONG WITH THE OPERATION OF A PORTION OF THE PLANT. ACTIVITY AT THE REMAINING SIX FACILITIES HAS BEEN MAINTAINED AT ABOUT THE SAME LEVELS AS IN 1978. IN ADDITION, CONSTRUCTION HAS CONTINUED ON AN UNIDENTIFIED INDUSTRIAL FACILITY NEAR BURREL. OIA COULD NOT DETERMINE WHETHER THIS IS A CHINESE AID PROJECT OR NOT, BUT IT HAS BEEN INCLUDED BECAUSE IT ALSO ILLUSTRATES ALBANIA'S ABILITY TO CONTINUE CONSTRUCTION ACTIVITY.

THIS STUDY PROVIDES BRIEF DESCRIPTIONS OF THE 13 INSTALLATIONS STUDIED, ALONG WITH INDICATIONS OF THE PROGRESS MADE SINCE 1974. ALSO INCLUDED ARE A LOCATION MAP AND PHOTOGRAPHS OF THOSE FACILITIES WHERE SIGNIFICANT CHANGES HAVE BEEN OBSERVED DURING THE PAST YEAR.

IMAGERY OBTAINED IN JUNE 1974, JULY 1978, AND MAY 1979 WAS USED FOR THIS STUDY.

CIA INFR IS10156K-79 21 SEP 79 [] SEC CLASS: 13 MSN: 0006P ACCN: S088622 25X1

BAGRAM AIRFIELD AIRBORNE INFANTRY BN SOV PROB AF 345700N 0691602E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 1 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

1734
TOP SECRET CHESS RUFF []

25X1

25X1

TOP SECRET CHESS RUFF

25X1

A SOVIET PROBABLE AIRBORNE INFANTRY BATTALION IS LOCATED AT BAGRAM AIRFIELD, AFGHANISTAN, APPROXIMATELY 47 KILOMETERS NORTH OF KABUL. BAGRAM AIRFIELD IS THE MAIN OPERATING BASE FOR THE SOVIET AN-12 (CUB) TRANSPORT AIRCRAFT AND THE MI-8 (HIP) HELICOPTERS USED TO SUPPORT THE AFGHAN ARMY.

THE SOVIET PROBABLE AIRBORNE INFANTRY BATTALION, WHICH ARRIVED AT BAGRAM BETWEEN 6 AND 9 JULY 1979, IS BIVOUACED IN 11 AIRCRAFT REVETMENTS IN AN ISOLATED AREA AT THE NORTHEAST END OF THE AIRFIELD. THE EVIDENCE USED TO IDENTIFY THE UNIT AS AIRBORNE IS PRIMARILY BASED ON THE IDENTIFICATION OF THE GAZ-66B, A CANVAS-CAB CARGO TRUCK WHICH IS A SIGNATURE VEHICLE IN SOVIET AIRBORNE UNITS. THIS PARTICULAR VEHICLE IS NOT OBSERVED IN AFGHAN ARMY UNITS. THE ONLY AFGHAN AIRBORNE UNIT, THE 242ND AIRBORNE BATTALION REMAINS GARRISONED IN KABUL. THIS UNIT HAS ONLY THE METAL-CAB VERSION GAZ, THE GAZ-66A.

OTHER EVIDENCE INDICATING A SOVIET UNIT IS THE PRESENCE OF SOVIET TENTS AND CONCEALMENT SCREENING TO OBSTRUCT GROUND OBSERVATION OF EQUIPMENT. THIS USE OF CONCEALMENT SCREENING HAS FREQUENTLY BEEN OBSERVED IN SOVIET UNION AND WITH SOVIET FORCES IN EASTERN EUROPE.

25X1

CIA INFR IS10168J-79 11 OCT 79 [] SEC CLASS: 24 MSN: 0031P ACCN: S088624 25X1

MILITARY, 11TH ARMY KUNMING MILITARY REGION CH
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 35 COMIREX NO:

THE 11TH ARMY IS LOCATED IN YUNNAN PROVINCE, WESTERN KUNMING MILITARY REGION. THE ARMY HEADQUARTERS AND PRINCIPAL SUPPORT ELEMENTS ARE LOCATED AT DALI (TA-LI) AND DENGXIAN (TENG-CHUAN). THE ARMY HAS THREE SUBORDINATE INFANTRY DIVISIONS. TWO OF THESE DIVISIONS ARE LOCATED AT XIAGUAN (HSIA-KUAN) AND LINCANG (LIN-ISANG). THE THIRD DIVISION, RECENTLY FORMED FROM THE UPGRADING OF INTERNAL DEFENSE UNITS IN YUNNAN IS LOCATED AT FUXIENG ZHEN (FU-HSING-CHEN).

25X1

1735
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA INFR IS10163J-79 28 SEP 79 [REDACTED] SEC CLASS: 24 MSN: 0007P ACCN: S088626 25X1

MILITARY, PONTOON BRIDGE REGT U/I KUNMING MR CH
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

AN UNIDENTIFIED PONTOON BRIDGE REGIMENT (INDEPENDENT) IS IN YUNNAN PROVINCE, 75 KILOMETERS SOUTH OF KUNMING CITY. THE HEADQUARTERS UNIT FOR THE REGIMENT IS PROBABLY AT JIANGCHUAN (CHIAN-CHUAN) ARMY BARRACKS 1. THE REGIMENT IS MADE UP OF PONTOON BRIDGE COMPANIES, EACH OF WHICH HAS 18 TPP. TWO OF THE COMPANIES ARE AT JIANGCHUAN ARMY BARRACKS 1, ONE IS AT JIANGCHUAN ARMY BARRACKS 2, AND A FOURTH COMPANY IS AT YUJI (YU-CHI).

CIA INFR IS10158J-79 26 SEP 79 [REDACTED] SEC CLASS: 25 X MSN: 0008P ACCN: S088627 25X1

MILITARY, GUERRILLA FORCES AO
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 35 COMIREX NO:

OIA HAS IDENTIFIED EIGHT PROBABLE SOUTH-WEST AFRICAN PEOPLE'S ORGANIZATION (SWAPO) GUERRILLA CAMPS IN SOUTHERN ANGOLA. TWO ADDITIONAL SWAPO CAMPS, AT CASSINGA AND RUACANA, HAVE BEEN HEAVILY DAMAGED BY SOUTH AFRICAN ATTACKS. SWAPO CAMPS HAVE ALSO BEEN REPORTED IN SIX AREAS OCCUPIED BY CONVENTIONAL ANGOLAN ARMY UNITS. ONLY ONE, HOWEVER--AT ONJIVA (FORMERLY PEREIRA DE ECA)--SHOWED EVIDENCE OF POSSIBLE SWAPO ACTIVITY.

NPIC MEMO [REDACTED] 17 OCT 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0001P ACCN: S088629 25X1

NORILSK RADCOM XMTR STA TWIN DISH ANT SEARCH UR 692349N 0881751E
 WAC NO : BE/OBJ NO: NPIC NO : - 6-C
 IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

1736
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

NPIC MEMO [] 18 OCT 79 [] SEC CLASS: 14B MSN: 0003P ACCN: S088630 25X1

MOSKVA LRA SIGNAL REGIMENT GARRISON PROB UR 554540N 0374735E
WAC NO : 0167 BE/OBJ NO: NPIC NO : -
IDHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1

KEYHOLE IMAGERY SINCE 1972 WAS REVIEWED TO IDENTIFY A LONG RANGE AIR (LRA) SIGNALS REGIMENT GARRISON IN MOSCOW. A FACILITY WAS IDENTIFIED AT THE LOCATION DESCRIBED IN THE REFERENCED INTELLIGENCE REPORT, BUT NO COMMUNICATIONS ACTIVITY OR EQUIPMENT COULD BE IDENTIFIED.*

NPIC MEMO [] 19 OCT 79 [] SEC CLASS: 14B MSN: [] 0002P ACCN: S088631 25X1

VOLOKONOVKA TV RELAY STATION UR 503043N 0375155E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 102-A
IDHS CODE: [] EPF CAT : 25B COMIREX NO:
NOVYY OSKOL RADIO RELAY STATION UR 504720N 0374920E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 102-B
IDHS CODE: [] EPF CAT : 25D COMIREX NO:
STARYY OSKOL RADIO RELAY + TV RELAY STATION UR 511430N 0374530E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 122-A
IDHS CODE: [] EPF CAT : 25B COMIREX NO:
STARYY OSKOL RADIO RELAY + TV RELAY STATION UR 511430N 0374530E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 122-A
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1

25X1

25X1

25X1

[] WAS REVIEWED TO PROVIDE THE NUMBER, TYPE, AND ORIENTATION OF ANTENNAS AT RADIO-RELAY STATIONS IN THE VOLOKONOVKA - STARYY OSKOL RADIO-RELAY LINE. A SEARCH FOR NEW RADIO-RELAY STATIONS ALONG THE HIGHWAY AND RAILROAD BETWEEN THE TWO CITIES DID NOT REVEAL ANY ADDITIONAL RADIO-RELAY STATIONS.*

25X1

NPIC MEMO [] 19 OCT 79 [] SEC CLASS: 14B MSN: 0001P ACCN: S088632 25X1

STUPINO RADIO RELAY STATION UR 545325N 0380300E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 80-A3
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

25X1

A REVIEW OF [] WAS MADE TO DETERMINE THE STATUS OF STUPINO RADREL STATION. THE TYPE, NUMBER AND ORIENTATION OF ANTENNAS COULD NOT BE DETERMINED DUE TO THE LIMITED INTERPRETABILITY OF THE AVAILABLE IMAGERY.

25X1

25X1

1737
TOP SECRET CHESS RUFF

25X1

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 15A COMIREX NO:

25X1

NPIC IAR IARA060-79 OCT 79 SEC CLASS: 14D MSN: 0002P ACCN: S088635

25X1

AIRCRAFT, RAM K UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:
KOMSOMOLSK AIRFRAME PLANT ORDZHONIKIDZE 126 UR 503518N 1370525E
WAC NO : BE/OBJ NO: NPIC NO : - 13-A
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X1

A RAM K AIRCRAFT WAS OBSERVED AT KOMSOMOLSK AIRFRAME PLANT ORDZHONIKIDZE 126, USSR, ON OF
A RAM K HAS BEEN OBSERVED AT KOMSOMOLSK ON ON FOUR OTHER DATES
HOWEVER, THIS IS THE FIRST HIGH-RESOLUTION COVERAGE OF SUCH GOOD
INTERPRETABILITY. THE RAM K WAS FIRST IDENTIFIED AT RAMENSKOYE FLIGHT TEST CENTER
IMAGERY OF

25X1

25X1

25X1

25X1

25X1

THE RAM K IS A NEW TWIN-ENGINE, SUKHOI-ASSOCIATED, HIGH-PERFORMANCE SOVIET PROTOTYPE AIRCRAFT.
KOMSOMOLSK AIRFRAME PLANT ORDZHONIKIDZE 126 IS A SUKHOI-ASSOCIATED AIRFRAME PLANT LOCATED IN THE FAR
EASTERN USSR. DETAILED MENSURAL ANALYSIS OF THE RAM K IS GIVEN IN THIS REPORT.

25X1

NPIC IAR IARA066-79 OCT 79 SEC CLASS: 14B MSN: 0002P ACCN: S088639

25X1

NIKOLAYEV SHIPYARD NORTHERN 445F CL COMBATANT UR 465840N 0320019E
WAC NO : BE/OBJ NO: NPIC NO : - 46-C

25X1

1738
TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

IDHS CODE: [Redacted]	EPF CAT : 75E	COMIREX NO: [Redacted]
SHIPS, 445F CLASS COMBATANT		UR
WAC NO :	BE/OBJ NO:	NPIC NO : -
IDHS CODE:	EPF CAT : 75D	COMIREX NO:

25X1

[Large Redacted Block]

25X1

NPIC IAR IAR0044-79 OCT 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0003P ACCN: S088641 25X1

VINOGRADOV ENGINEER + STORAGE DPO NZHM-56 BRG	UR 480755N 0230230E
WAC NO : [Redacted]	NPIC NO : - 107-N1
IDHS CODE: [Redacted]	COMIREX NO:
BE/OBJ NO: [Redacted]	
EPF CAT : 35F	

25X1

THE SUPERSTRUCTURE FOR AN NZHM-56 FLOATING RAILWAY PONTON BRIDGE WAS SEEN AT VINOGRADOV ENGINEER/NZHM STORAGE DEPOT, USSR, ON IMAGERY OF [Redacted] THE SUPERSTRUCTURE SECTION WAS IN A PROBABLE TRAINING CONFIGURATION AND WAS SEPARATED FROM ITS SUPPORTING PONTON SECTIONS. THE VINOGRADOV DEPOT HOUSES THE NZHM-56 BATTALION WHICH IS SUBORDINATE TO A SOVIET RAILROAD CONSTRUCTION ENGINEER BATTALION AT VINOGRADOV ARMY BARRACKS AL-1 [Redacted]

25X1

25X1

[Large Redacted Block]

25X1

1739 TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA11-0003-79 OCT 79 SEC CLASS: 14D MSN: 0007P ACCN: S088644 25X1

KUSONG TANK PLANT PUG

WAC NO :
IDHS CODE:

BE/OBJ NO :
EPF CAT : 35G

KN 400318N 1251320E
NPIC NO : - 180-B
COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF KUSONG TANK PLANT, LOCATED 5 NM NORTH-NORTHWEST OF KUSONG, IN NORTHWESTERN NORTH KOREA. THE ROAD AND RAIL SERVED PLANT INCLUDES FACILITIES FOR THE TESTING AND PRODUCTION OF ARMORED VEHICLES. IT OCCUPIES APPROXIMATELY 120 HECTARES AND INCLUDES 108 BUILDINGS WITH 73,037 SQUARE METERS OF ROOF COVER. OF THESE, 7 ARE MAJOR PRODUCTION BUILDINGS WITH 37,577 SQUARE METERS OF ROOF COVER. THE INSTALLATION HAS BEEN DIVIDED INTO FOUR FUNCTIONAL AREAS: TEST/CHECKOUT, FABRICATION/ASSEMBLY, COMPONENTS PRODUCTION, AND ADMINISTRATION/ENGINEERING.

THE INFORMATION IS PRESENTED IN GRAPHIC, AND TABULAR FORM. IT INCLUDES A MAP, THREE ANNOTATED PHOTOGRAPHS, THREE TABLES, AND A NATIONAL BASIC REFERENCE GRAPHIC (NBRG). A REFERENCE DATA LIST FURNISHES IMAGEY AND MAP SOURCES. INSIGNIFICANT BUILDINGS SUCH AS LATRINES, ENVIRONMENTAL COVERS, AND SMALL UTILITY AND CONSTRUCTION SUPPORT BUILDINGS HAVE BEEN OMITTED FROM THE GRAPHICS AND TABLES.

THIS REPORT SUPERSEDES DIA, RDA-11/0023/75, KUSONG REAR SERVICE REPAIR/OVERHAUL DEPOT, NORTH KOREA, APR 75, FORMERLY THE BASIC REPORT FOR THIS INSTALLATION.

25X1

25X1

1740

TOP SECRET CHESS RUFF

25X1
25X1

Page Denied

Next 1 Page(s) In Document Denied

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1

COMBAT UNITS AT KUSHKA ARMY BARRACKS ALI/HEADQUARTERS MOTORIZED RIFLE DIVISON, USSR, NEAR THE AFGHANISTAN BORDER APPEARED TO BE PREPARING TO DEPART ON IMAGERY OF []

25X1

NPIC IAR S002-79 SEP 79 [] SEC CLASS: 14D MSN: 0062P ACCN: S088658 25X1

MISSILES, ACTIVITY SUMMARY SAL RELATED UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 40 COMIREX NO:
AIRCRAFT, ACTIVITY SUMMARY SAL RELATED UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

SHIPS, ACTIVITY SUMMARY SAL RELATED UR
WAC NO : BE/OBJ NO: NPIC NO : -
IDHS CODE: EPF CAT : 75D COMIREX NO:

THIS REPORT IS THE SECOND IN A SERIES OF REPORTS ON SAL-RELATED ACTIVITIES TO BE DONE BY THE NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER. THIS REPORT COVERS THE PERIOD FROM 1 JUNE THROUGH 31 AUGUST 1979 AND UPDATES THE FIRST SALT SUMMARY REPORT PUBLISHED IN JUNE 1979: NPIC, [] IAR-001/79, SAL-RELATED ACTIVITIES: SUMMARY REPORT, JUNE 1979 (TOP SECRET [])

25X1
25X1

IT CONTAINS FOUR SECTIONS WHICH DEAL WITH STRATEGIC LAND-BASED MISSILES, SUBMARINE-LAUNCHED BALLISTIC MISSILES, CRUISE MISSILES, AND LONG-RANGE AVIATION.

THE CRUISE MISSILE SECTION HAS BEEN ADDED AS A RESULT OF SALT II. PERTINENT CONCEALMENT, CAMOUFLAGE, AND DECEPTION ACTIVITY IS ALSO INCLUDED IN THE DISCUSSION OF THE VARIOUS SUBSTANTIVE AREAS.

SOME OF THE ACTIVITY IN THIS REPORT IS DERIVED FROM IMAGERY OF [] WHICH WAS NOT AVAILABLE UNTIL AFTER THE FIRST REPORT HAD BEEN PUBLISHED. IN THESE INSTANCES, THE DATES ARE INCLUDED IN THE APPROPRIATE SECTION.

25X1

DIA IIM 5B1-73477-79 18 OCT 79 [] SEC CLASS: 14B MSN: [] 0002P ACCN: S088668 25X1

SUWALKI MILITARY BARRACKS 3 PL 540511N 0225545E
WAC NO : BE/OBJ NO: NPIC NO : - 145-A1
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

DIA NOTE [] 15 OCT 79 [] SEC CLASS: 13 MSN: [] 0004P ACCN: S088669 25X1

TOTSKOYE ARMY BARRACKS ALI MINE-ASSOC VEH UR 523041N 0524711F
WAC NO : BE/OBJ NO: NPIC NO : - 29-E
IDHS CODE: EPF CAT : 35A COMIREX NO: []

25X1
25X1

1743
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA NOTE [] 15 OCT 79 [] SEC CLASS: 13 MSN: [] 0003P ACCN: S088670 25X1

BROVARY ARMY BKS AL1 BROVARY RVR CROSSING VEH UR 502950N 0304430E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 30-C
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NOTE [] 22 OCT 79 [] SEC CLASS: 14B MSN: [] 0005P ACCN: S088671 25X1

OVRUCH ARMY BKS AL1 + HQ TANK DIV BTR-70 APC UR 511947N 0284744E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 42-H
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NOTE [] 22 OCT 79 [] SEC CLASS: 14B MSN: [] 0005P ACCN: S088672 25X1

KOROSTEN ARMY BARRACKS NNE AL4 T-64/T-72 TANK UR 510700N 0284100E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 124
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NOTE [] 23 OCT 79 [] SEC CLASS: 14B MSN: [] 0005P ACCN: S088673 25X1

CESKY KRUMLOV ARMY BKS NORTH 1 R-330/R-330A CZ 484939N 0141840E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 29-F
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
CESKY KRUMLOV ARMY BKS NORTH 1 R-330/R-330A CZ 484939N 0141840E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 29-F
IDHS CODE: [] EPF CAT : 25 COMIREX NO: []

25X1
25X1
25X1
25X1

DIA IIM 5B1-73627-79 22 OCT 79 [] SEC CLASS: 14 MSN: [] 0004P ACCN: S088675 25X1

PETROPALOVSK ARMY BARRACKS AL25 UR 525925N 1584558E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 11-M
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

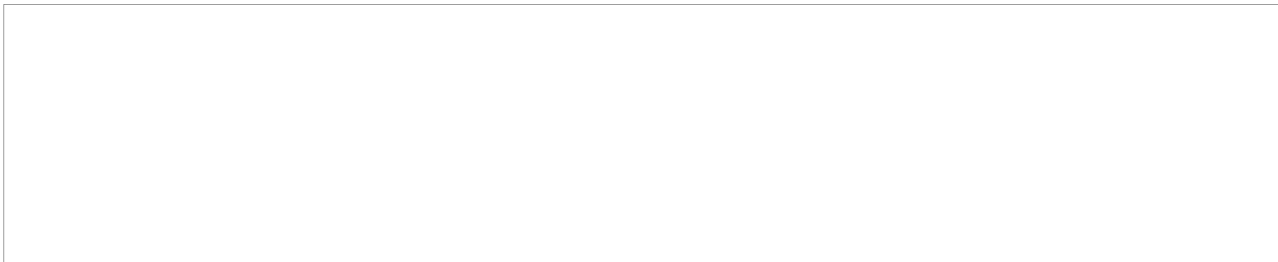
1744
TOP SECRET CHESS RUFF

25X1
25X1

Page Denied

TOP SECRET CHESS RUFF

25X1.1



25X1

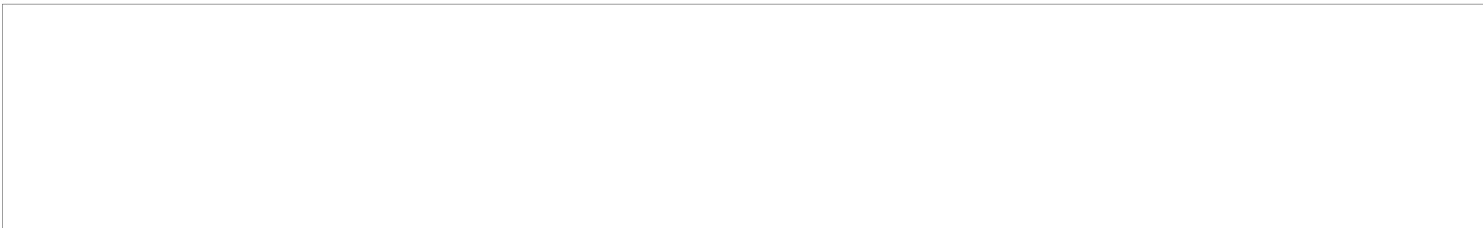
NPIC IAR IARA073-79 OCT 79 [redacted] SEC CLASS: 14B MSN: [redacted] 0004P ACCN: S088682 25X1

KOROSTEN ARMY BARRACKS NNE AL4 TANK DIV EXPMT UR 510700N 0284100E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 124-
IDHS CODE: [redacted] EPF CAT : 35A COMIREX NO: [redacted]

25X1
25X1

NEW DEVELOPMENTS WERE OBSERVED IN THE SOVIET EXPERIMENTAL TANK DIVISION AT KOROSTEN ARMY BARRACKS NNE AL-4, USSR, ON [redacted] THE PRESENCE OF DEPLOYED BTR-70 ARMORED PERSONNEL CARRIERS (APCS) WAS CONFIRMED, AND A SPOON REST D EARLY WARNING (EW) RADAR WITH SA-8 SAMS AND THE POSSIBLE FORMATION OF A DIVISIONAL EW BATTERY WERE SEEN.

25X1



25X1

CIA BIIR RCS13-0012-79 SEP 79 [redacted] SEC CLASS: 14B MSN: [redacted] 0017P ACCN: S088684 25X1

INDUSTRY: PETROLEUM REFINERIES BU
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : -
IDHS CODE: [redacted] EPF CAT : 30B COMIREX NO:
RUSE PETROLEUM REFINERY LEON TADZHER BU 435208N 0255917E
WAC NO : [redacted] BE/OBJ NO: [redacted] NPIC NO : - 74-B3

25X1

1746
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 30B	COMIREX NO:
PLEVEN PETROLEUM REFINERY YASEN	BU 432424N 0242916E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 64-F1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []
BURGAS PETROLEUM REFINERY KAMENO	BU 423245N 0272017E	
WAC NO : []	BE/OBJ NO: []	NPIC NO : - 22
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []

25X1
25X1
25X1
25X1

BETWEEN JANUARY 1963 AND MID-1978, BULGARIA'S PETROLEUM REFINING INDUSTRY GREW FROM ONE REFINERY WITH AN ESTIMATED CRUDE OIL DISTILLATION CAPACITY OF 0.5 MILLION METRIC TONS PER YEAR (MMT/YR) TO THREE REFINERIES WITH A COMBINED ESTIMATED CAPACITY OF 12.5 MMT/YR. ALMOST 90 PERCENT (OR 11 MMT/YR) OF THE COUNTRY'S DISTILLATION CAPACITY IS IN ONE OF THE REFINERIES -- NEAR THE CITY OF BURGAS. NO ADDITIONAL CRUDE OIL DISTILLATION UNITS WERE OBSERVED UNDER CONSTRUCTION IN BULGARIAN REFINERIES IN MID-1978. MOST OF THE CRUDE OIL REFINED IN BULGARIA AS WELL AS MANY OF ITS PETROLEUM REFINING UNITS ARE FROM THE SOVIET UNION.

BASED ON THE TYPE OF SECONDARY PROCESSING UNITS IDENTIFIED IN THE REFINERIES, IT IS APPARENT THAT BULGARIA IS NOT FULLY REFINING CRUDE OIL. THE REFINERIES LACK THE CRACKING UNITS NEEDED TO PROCESS THE LARGE AMOUNT OF HEAVY FUELS PRODUCED IN THE CRUDE OIL DISTILLATION UNITS INTO MORE VALUABLE LIGHTER FUELS SUCH AS GASES, GASOLINE, AND LIGHT DIESEL FUELS. BULGARIA'S FIRST CRACKING UNIT, WHICH WAS UNDER CONSTRUCTION IN MID-1978 AND MAY BEGIN OPERATING BY THE END OF 1979, WILL BE CAPABLE OF PROCESSING ONLY A SMALL PART OF THE HEAVY FUELS.

THIS REPORT PROVIDES A DISCUSSION OF THE DEVELOPMENTS IN THE BULGARIAN PETROLEUM REFINING INDUSTRY. IT INCLUDES A GRAPH SHOWING THE GROWTH OF THE REFINING INDUSTRY, A REFINERY PROCESS FLOW CHART, AND AN ESTIMATE OF THE CRUDE OIL DISTILLATION CAPACITY OF EACH REFINERY. ALSO INCLUDED ARE A PHOTOGRAPH AND A DESCRIPTION WITH A LISTING OF THE MAIN PRODUCTS OF EACH REFINERY.

NPIC MCS MCS005-79 OCT 79 [] SEC CLASS: 14 MSN: [] 0148P ACCN: S088686 25X1

WAC NO : []	BE/OBJ NO: []	NPIC NO : -
IDHS CODE: []	EPF CAT : 60A	COMIREX NO:

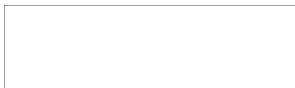
25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25A1



25X1

NPIC IAR IARA071-79 OCT 79 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 0002P ACCN: 5088693 25X1

TASHKENT AIRFRAME PLT B CANDID B IL-76 MODIF UR 411802N 0691904E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 27-N
IDHS CODE: [REDACTED] EPF CAT : 05G COMIREX NO: [REDACTED]

25X1

25X1

[REDACTED] A MODIFIED CANDID B AIRCRAFT, [REDACTED] WAS OBSERVED ON AN AIRCRAFT ASSEMBLY APRON ADJACENT TO THE WESTERN ASSEMBLY BUILDING AT TASHKENT AIRFRAME PLANT B CHKALOV 84, USSR. THE MODIFICATIONS CONSISTED OF A CYLINDRICAL AFT FUSELAGE EXTENSION, [REDACTED] IN DIAMETER, AND TWO LARGE BLISTERS, ONE ON EACH SIDE OF THE FUSELAGE JUST FORWARD OF AND BELOW THE FLIGHT DECK AREA.

25X25X1

25X1

THE [REDACTED] IMAGERY PROVIDED THE FIRST SIGHTING OF A CANDID WITH BOTH MODIFICATIONS.

25X1

NPIC IAR IARA070-79 OCT 79 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 0003P ACCN: 5088694 25X1

KAPUSTIN YAR MTC CPLX A SRBM 1 SS-X-23 EQUIP UR 484116N 0461648E
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : - 10-A4
IDHS CODE: [REDACTED] EPF CAT : 40B COMIREX NO: [REDACTED]

25X1

25X1

A PROBABLE SS-X-23 MISSILE AIRFRAME CANISTER, WARHEAD CANISTER, AND POSSIBLE WARHEAD WERE IDENTIFIED FOR THE FIRST TIME ON IMAGERY OF [REDACTED] AT KAPUSTIN YAR SRBM TEST COMPLEX A SITE 1, USSR.

25X1

1748

TOP SECRET CHESS RUFF



25X1

25X1

TOP SECRET CHESS RUFF

25X1

ALSO PRESENT IN THE VICINITY WERE PROBABLE SS-X-23 TRANSPORTER-ERECTOR-LAUNCHERS (TELS), ONE RE-SUPPLY VEHICLE, AND SEVERAL CRATES.

AF PAR 695-79 13 SEP 79 [] SEC CLASS: 13 MSN: 0002P ACCN: 5088701 25X1

GALLESH PETROLEUM REFINERY

WAC NO : [] BE/OBJ NO: [] AL 403615N 0194535E
IDHS CODE: [] EPF CAT : 30B NPIC NO : - 288

25X1

BEROT/STALIN AIRFIELD EW RADAR FACILITY

WAC NO : [] BE/OBJ NO: [] AL 404700N 0195400E
IDHS CODE: [] EPF CAT : 25H NPIC NO : -

25X1

FIER EW RADAR FACILITY

WAC NO : [] BE/OBJ NO: [] AL 404400N 0193100E
IDHS CODE: [] EPF CAT : 25A NPIC NO : -

25X1

FIER EW FACILITY AND BEROT/STALIN AIRFIELD EW FACILITY IN ALBANIA WERE SEARCHED FOR THE PRESENCE OF CROSS LEG AND RICE CUP RADARS. BOTH TYPES OF RADAR WERE OBSERVED AT THE FIER EW FACILITY, BUT NEITHER WERE PRESENT AT BEROT/STALIN AIRFIELD EW FACILITY.*

AF PAR 669-79 13 SEP 79 [] SEC CLASS: 13 MSN: 0002P ACCN: 5088703 25X1

SHANGHAI/CHIANGWAN AIRFIELD RADARS

WAC NO : [] BE/OBJ NO: [] CH 312021N 1213020E
IDHS CODE: [] EPF CAT : 25H NPIC NO : - 28-W

25X1

SHANGHAI/TACHANG AIRFIELD RADARS

WAC NO : [] BE/OBJ NO: [] CH 311930N 1212425E
IDHS CODE: [] EPF CAT : 25H NPIC NO : - 28-W4

25X25X1

25X1

AF PAR 676-79 12 SEP 79 [] SEC CLASS: 13 MSN: 0002P ACCN: 5088704 25X1

MISSILES, CSS-1

WAC NO : [] BE/OBJ NO: [] CH
IDHS CODE: [] EPF CAT : 40B NPIC NO : -
COMIREX NO:

A TOTAL OF 35 SATELLITE COVERAGES OF THE CSS-1 MISSILE WERE REVIEWED FOR CONFIGURATION AND DIMENSIONS OF THE MISSILE. NONE OF THE AVAILABLE MISSIONS WERE OF SUFFICIENT QUALITY TO SUPPORT A DETAILED COMPARATIVE ANALYSIS.

THE NOSECONE CONFIGURATION FOR THE CSS-1 IS DEPICTED IN DRAWING 79C1507.*

NPIC MLMO [] 29 OCT 79 [] SEC CLASS: 14B MSN: 0001P ACCN: 5088706 25X1

ASTOVO IONOSPHERIC HEATER ANTENNA SEARCH

WAC NO : 0155 BE/OBJ NO: [] UR 5611 N 04411 E
NPIC NO : -

TOP SECRET CHESS RUFF

25X1

25X1

[Redacted]

TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

IDHS CODE: [Redacted] EPF CAT : 25 COMIREX NO: [Redacted] 25X1
 AF ENDR C4527-79 31 AUG 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S088707 25X1
 MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88 UR 555517N 0374805E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 47 25X1
 IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted] 25X1
 MOSKVA MISSILE + SPACE DEV CTR KALININGRAD 88 UR 555517N 0374805E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 47 25X1
 IDHS CODE: [Redacted] EPF CAT : 40H COMIREX NO: [Redacted] 25X1

THIS DRAWING SUPPLEMENTS PAR 79-617.*

AF ENDR C4535-79 07 SEP 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0001P ACCN: S088708 25X1
 SPACE, COSMOS-1106 UR
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
 IDHS CODE: [Redacted] EPF CAT : 40H COMIREX NO: [Redacted]

AF ENDR D6503-2-75 14 MAY 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0001P ACCN: S088709 25X1
 SEMIPALATINSK NWP6 SHAGAN RVR SILO TEST AREA UR 495929N 0785552E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 33-M 25X1
 IDHS CODE: [Redacted] EPF CAT : 55A COMIREX NO: [Redacted] 25X1

THIS DRAWING SUPPLEMENTS PAR'S 75-519, 73-676, 76-562, AND 79-627 AND SUPERSEDES DRAWING 75D6503/1.*

AF ENDR C6543-1-78 07 SEP 79 [Redacted] SEC CLASS: 13 MSN: 0001P ACCN: S088710 25X1
 NENOKSA NAVAL MTC TRACKING FACILITY UR 643807N 0390924E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 21-A1 25X1
 IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted] 25X1

THIS DRAWING SUPPLEMENTS PARS 78-693 AND 79-673 AND SUPERSEDES 70C6553/5.*

[Redacted]

25X1

1750
TOP SECRET CHESS RUFF [Redacted]

[Redacted]

25X1
25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR D6564-79 SEP 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088712 25X1

WASOSNY AIRFIELD AIRCRAFT ENGINE TEST BLDG UR 403534N 0493322F
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 43
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR-660.*

AF ENDR D6511-3-73 29 JUN 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088714 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 5 UR 553238N 0380710E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 50-D5
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR'S 77-630, 78-566 AND 79-620.*

AF ENDR E3507-1-78 29 JUN 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088715 25X1

RAMENSKOYE FLIGHT TEST CENTER AREA 5 UR 553238N 0380710E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 50-D5
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR 79-620.*

AF ENDR E6526-4-75 13 SEP 79 [] SEC CLASS: 13 MSN: 0001P ACCN: S088716 25X1

NARYAN MAR TELEMETRY/TRACKING FACILITY UR 673611N 0525848E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 4-D1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

THIS DRAWING SUPPLEMENTS PAR'S 79-678 AND 78-696 AND SUPERCEDES DRAWING 68E6515.*

DIA IIM 561-73702-79 29 OCT 79 [] SEC CLASS: 14D MSN: [] 0002P ACCN: S088717 25X1

STARAYA KUKA ORUNANCE DEPOT SW 1 UR 514435N 1130110E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 26-B
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1
25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	IIM	5B1-73679-79	29 OCT 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0002P	ACCN: 5088719	25X1
		KOZLE AMMUNITION STORAGE FACILITY 505			PL	502004N 0180936E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 76-B2			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:	[REDACTED]			
DIA	IIM	5B1-7365b-79	29 OCT 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0005P	ACCN: 5088720	25X1
		NALCHIK ARMY BARRACKS NE AL1			UR	432957N 0433816E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 42-A			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35A	COMIREX NO:	[REDACTED]			25X1
DIA	IIM	5B1-73691-79	29 OCT 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0004P	ACCN: 5088721	25X1
		CHUGUYEV MILITARY DEPOT SE DX1			UR	494657N 0364442E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 5-H			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:	[REDACTED]			25X1
DIA	IIM	5B1-73516-79	29 OCT 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0002P	ACCN: 5088722	25X1
		KEGICHEVKA ORDNANCE DEPOT D01			UR	491617N 0354453E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 14			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:	[REDACTED]			25X1
DIA	IIM	5B1-73683-79	29 OCT 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0003P	ACCN: 5088723	25X1
		KLETSK MILITARY DEPOT			UR	530430N 0263840E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 201-B			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:	[REDACTED]			25X1
DIA	IIM	5B1-73695-79	29 OCT 79	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	0001P	ACCN: 5088724	25X1
		ALMA ATA MILITARY STORAGE DEPOT CHEMOLGAN			UR	432257N 0763627E			
		WAC NO :	[REDACTED]	BE/OBJ NO: [REDACTED]	NPIC NO :	- 1-J3			25X1
		IDHS CODE:	[REDACTED]	EPF CAT : 35F	COMIREX NO:	[REDACTED]			25X1
DIA	IIM	5B1-73692-79	26 OCT 79	[REDACTED]	SEC CLASS: 14D	MSN: [REDACTED]	0001P	ACCN: 5088725	25X1
		IRKUTSK ORDNANCE DEPOT BATAREYNAYA D01			UR	522250N 1040923E			

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : [] BE/OBJ NO: [] NPIC NO : - 4-S
IUHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

DIA IIM 5B1-73685-79 26 OCT 79 [] SEC CLASS: 14B MSN: [] 0001P

ACCN: S08872025X1

OMSK ORDNANCE + AMMUNITION DEPOT UR 550052N 0732337E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 5-F
IUHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

25X1

DIA IIM 5B1-73732-79 02 NOV 79 [] SEC CLASS: 14 MSN: [] 0004P

ACCN: S08874025X1

ZAGORSK MILITARY DEPOT DX1 UR 561630N 0381400E
WAC NO : [] BE/OBJ NO: [] NPIC NO : -
IUHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

DIA IIM 5B1-73720-79 31 OCT 79 [] SEC CLASS: 14B MSN: [] 0005P

ACCN: S08874025X1

GRODNO AMMUNITION DEPOT KELBASIN SW UR 533810N 0234540E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 22-C
IUHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1

DIA IIM 5B1-73719-79 02 NOV 79 [] SEC CLASS: 14 MSN: [] 0003P

ACCN: S08875025X1

CHAUSY MILITARY VEHICLE STORAGE FACILITY UR 534727N 0305757E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 103

25X1

1753

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE:

EPF CAT : 35F

COMIREX NO:

25X1

25X1

DIA IIM 5B1-73697-79 30 OCT 79 SEC CLASS: 14 MSN: 0005P

ACCN: S088752

25X1

NESVIZH MILITARY VEHICLE STORAGE FACILITY

UR 531340N 0263940E

WAC NO :

BE/OBJ NO:

NPIC NO : - 173-B1

IDHS CODE:

EPF CAT : 35F

COMIREX NO:

25X1

25X1

DIA IIM 5B1-73707-79 30 OCT 79 SEC CLASS: 14 MSN: 0002P

ACCN: S088753

25X1

MINSK MILITARY GENERAL STORAGE DEPOT

UR 535920N 0273030E

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 35F

COMIREX NO:

25X1

DIA IIM 5B1-73717-79 30 OCT 79 SEC CLASS: 14B MSN: 0003P

ACCN: S088754

25X1

MINSK MILITARY INSTALLATIONS NW U/I

UR 5358 N 02730 E

WAC NO :

BE/OBJ NO:

NPIC NO : -

IDHS CODE:

EPF CAT : 35A

COMIREX NO:

25X1

DIA IIM 5B1-73726-79 31 OCT 79 SEC CLASS: 14 MSN: 0002P

ACCN: S088756

25X1

MAGADAN AMMUNITION DEPOT NORTH PUG

UR 593620N 1505340E

WAC NO :

BE/OBJ NO:

NPIC NO : - 1-N3

IDHS CODE:

EPF CAT : 35F

COMIREX NO:

25X1

25X1

1754

TOP SECRET CHESS RUFF

25X1

25X1



TOP SECRET CHESS RUFF



25X1

DIA NBRG NDA07-5109-79 23 OCT 79 SEC CLASS: 05B MSN: 0001P ACCN: 5088758

ESZTERGOM ARMY BARRACKS + HQ 201/202/203 HU 474459N 0184408E
WAC NO : BE/OBJ NO: NPIC NO : - 17-C
IUHS CODE: EPF CAT : 35A COMIREX NO:

25X1
ZSAI

DIA NBRG NDA07-5110-79 23 OCT 79 SEC CLASS: 05B MSN: 0001P ACCN: 5088759

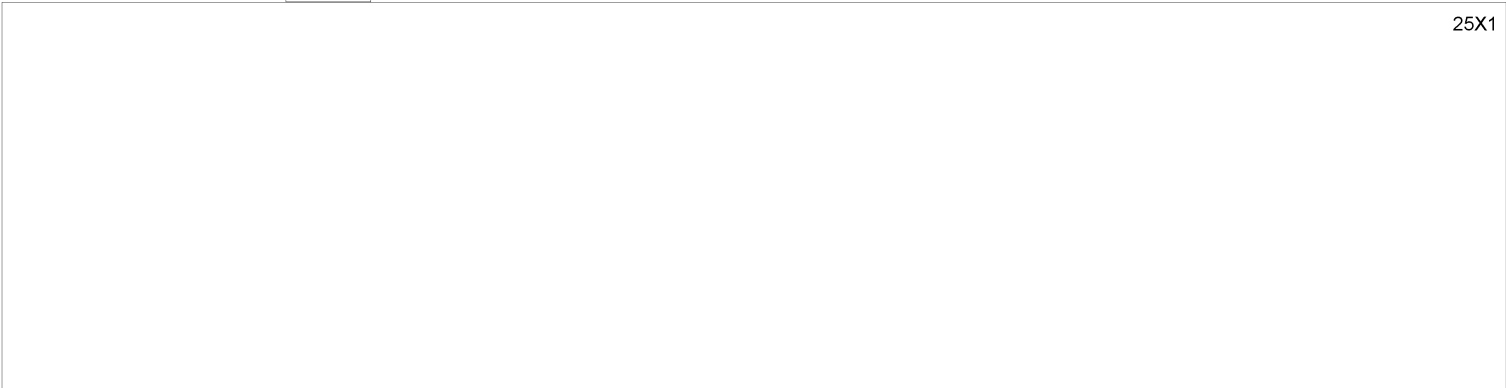
SZOMBATHELY ARMY BARRACKS 203 HU 471437N 0163730E
WAC NO : BE/OBJ NO: NPIC NO : - 55-J
IUHS CODE: EPF CAT : 35A COMIREX NO:

25X1
ZSAI

DIA NBRG NDA07-5111-79 23 OCT 79 SEC CLASS: 05B MSN: 0001P ACCN: 5088760

GYOR ARMY BARRACKS RAKOCZY 201 HU 474050N 0173822E
WAC NO : BE/OBJ NO: NPIC NO : - 22-J1
IUHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1



25X1

SINPO MAYANG DO NAVAL FACILITIES APPROACHES KN 3980 N 12811 E
WAC NO : BE/OBJ NO: NPIC NO : -
IUHS CODE: EPF CAT : 75B COMIREX NO:

25X1

1755
TOP SECRET CHESS RUFF



25X1
25X1

TOP SECRET CHESS RUFF

25X1

DIA	NBRG	NDA06-5028-79	31 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088765
		SINPO SHIPYARD SOUTH					
		WAC NO : []	BE/OBJ NO: []	KN	400112N 1280954E		25X1
		IDHS CODE: []	EPF CAT : 75E	NPIC NO : - 144-F			25X1
DIA	NBRG	NDA06-5053-78	29 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088766
		HAIMEN NAVAL BASE + SHIPYARD SHANTOU			CH 231227N 1163708E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 66			25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []			25X1
		HAIMEN NAVAL BASE + SHIPYARD SHANTOU			CH 231227N 1163708E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 66			25X1
		IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []			25X1
DIA	NBRG	NDA06-5054-78	29 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088767
		CHANCHIANG PORT FACILITIES			CH 211052N 1102422E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 1-B			25X1
		IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []			25X1
DIA	NBRG	NDA06-5055-78	29 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088768
		TAKU SHIPYARD HSIN CHIANG			CH 385934N 1174300E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 62-G			25X1
		IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []			25X1
DIA	NBRG	NDA06-5056-78	29 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088769
		LUTA NAVAL SHIPYARD			CH 385619N 1213620E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 18-C7			25X1
		IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []			
DIA	NBRG	NDA06-5057-78	29 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088770
		KUANGCHI SHIPYARD			CH 294903N 1153044E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 116-A			25X1
		IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []			25X1
DIA	NBRG	NDA06-5058-78	29 OCT 79	SEC CLASS: 05G	MSN:	0001P	ACCN: S088771
		HSIANGSHAN NAVAL FACILITY			CH 293214N 1214619E		
		WAC NO : []	BE/OBJ NO: []	NPIC NO : - 58			25X1

1756

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []		25X1
DIA	NBRG	NDA06-5024-78	29 OCT 79	SEC CLASS: 05I MSN: 0001P	ACCN: S088772
	DA NANG NAVAL STATION			VM 160700N 1081330E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 71-A		25X1
	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []		25X1
DIA	NBRG	NDA06-5025-78	29 OCT 79	SEC CLASS: 05I MSN: 0001P	ACCN: S088773
	CAN THO NAVAL BASE			VM 100450N 1054430E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 123-A4		25X1
	IDHS CODE: []	EPF CAT : 75B	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5118-79	26 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: S088774
	DNEPROPETROVSK ARMY BARRACKS	CENTRAL AL1		UR 482739N 0350033E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-L		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5119-79	26 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: S088775
	DNEPROPETROVSK ARMY BARRACKS	AL8		UR 482730N 0350210E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 7-M1		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5120-79	26 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: S088776
	SHUYA ARMY BARRACKS EAST	AL1/SA-4 SUPPORT FAC		UR 565030N 0412245E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 54-A		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
	SHUYA ARMY BARRACKS EAST	AL1/SA-4 SUPPORT FAC		UR 565030N 0412245E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 54-A		25X1
	IDHS CODE: []	EPF CAT : 40C	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5121-79	26 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: S088777
	GROZNY ARMY BARRACKS	SL AL1		UR 431700N 0454340E	
	WAC NO : []	BE/OBJ NO: []	NPIC NO : - 21-T		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5122-79	26 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: S088778

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

GROZNYI ARMY BARRACKS REKA SUNZHA AL3

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 431950N 0454210E
NPIC NO : - 21-A
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5123-79 26 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088779

YURGA ARMY BARRACKS SE AL1

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 554139N 0845941E
NPIC NO : - 17-A1
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5124-79 26 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088780

ABAKAN ARMY BARRACKS AL1 + HEADQUARTERS MRD

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 534138N 0912342E
NPIC NO : - 1-A2
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5095-79 23 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088781

MAYKOP ARMY BARRACKS SOUTH AL1

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 443428N 0400732E
NPIC NO : - 22-6
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5096-79 23 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088782

CHERKASSY ARMY BARRACKS AL1

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 492624N 0320247E
NPIC NO : - 9-D
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5097-79 23 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088783

VYPOLZOV ARMY BARRACKS AL1

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 505537N 0304541E
NPIC NO : - 81-A
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5098-79 23 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088784

VOROSHILOVGRAD ARMY BARRACKS AL6

WAC NO : []
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35A

UR 483430N 0392140E
NPIC NO : - 47-11
COMIREX NO: []

25X1

DIA NBRG NDA07-5099-79 23 OCT 79

SEC CLASS: 05B MSN: 0001P

ACCN: S088785

KRIVVOY ROG ARMY BARRACKS AL1

UR 475332N 0331915E

1758

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1



	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 42-K		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5100-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088786
	KRIVROY ROG ARMY BARRACKS AL2			UR 475300N 0331450E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 42-M		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5101-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088787
	ODESSA ARMY BARRACKS SVERDLOVO AL2			UR 463504N 0305608E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 51-M1		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5102-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088788
	VOLOGDA ARMY BARRACKS PRILUKI AL5			UR 591500N 0395408E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 66-K		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5103-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088789
	VOLOGDA ARMY BARRACKS NW AL2			UR 591417N 0395402E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 66-J5		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5104-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088790
	VYBORG ARMY BARRACKS NW AL2			UR 604359N 0284143E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 39-D		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5105-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088791
	VYBORG ARMY BARRACKS + RAILROAD STA NORTH AL3			UR 604256N 0284605E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 39-G2		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>		25X1
	VYBORG ARMY BARRACKS + RAILROAD STA NORTH AL3			UR 604256N 0284605E	
	WAC NO : <input type="text"/>	BE/OBJ NO: <input type="text"/>	NPIC NO : - 39-G2		25X1
	IUHS CODE: <input type="text"/>	EPF CAT : 85B	COMIREX NO: <input type="text"/>		25X1
DIA	NBRG	NDA07-5106-79	23 OCT 79	SEC CLASS: 05B MSN: 0001P	ACCN: 5088792

TOP SECRET CHESS RUFF

25X1

25X1



TOP SECRET CHESS RUFF

25X1
25X1

VYBORG ARMY BARRACKS AL1

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35A

UR 604318N 0284314E
NPIC NO : - 39-C
COMIREX NO:

25X1
25X1
25X1

NPIC IAR IARA083-79 NOV 79 SEC CLASS: 14B MSN: 0002P

ACCN: S088821 25X1

KUYVOZI SIGINT SITE DO-EL-02 ESM RADAR POSS UR 602800N 0302500E
WAC NO : BE/OBJ NO: NPIC NO : - 50-T1
IDHS CODE: EPF CAT : 25A COMIREX NO:

25X1

THE DO-EL-02 POSSIBLE ELECTRONICS SUPPORT MEASURE INTERCEPT SYSTEM HAS BEEN OBSERVED AT THE NEWLY IDENTIFIED KUYVOZI POSSIBLE SIGINT SITE IN THE LENINGRAD MILITARY DISTRICT OF THE USSR. THIS IS THE FIRST FIELD DEPLOYMENT OF THE DO-EL-02 SYSTEM. THE SITE IS AT 60-28-00N 030-25-00E, APPROXIMATELY 27 NAUTICAL MILES (NM) NORTH OF LENINGRAD AND 5.5 NM NORTH-NORTHEAST OF KUYVOZI.

25X1

1760
TOP SECRET CHESS RUFF

25X1
25X1

Sanitized Copy Approved for Release 2010/05/13 : CIA-RDP80T00913A000200040001-3

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC MCS

MCS006-79

OCT 79

[Redacted]

SEC CLASS: 14

MSN:

[Redacted]

0050P

ACCN: S088R25X1

MCS

[Redacted]

WAC NO :
IHHS COLT :

BE/OBJ NO :
EPF CAT : 60A

NPIC NO : -
COMIREX NO :

25X1

TOP SECRET CHESS RUFF

1761

[Redacted]

[Redacted]

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC IPIR [] PIR004-79 06 NOV 79 [] SEC CLASS: 14 MSN: [] 0030P ACCN: S0888725X15X1
 IPIR [] 001/004
 WAC NO : BE/OBJ NO: NPIC NO : -
 IDHS CODE: EPF CAT : 15A COMIREX NO:

DIA IIM 5B3-73808-79 13 NOV 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: S0888725X1
 SARY SHAGAN MTC R+D COMPLEX FAC A CONDUIT UR 455045N 0733104E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 34-D4
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

DIA IIM 5B1-73763-79 06 NOV 79 [] SEC CLASS: 14B MSN: [] 0001P ACCN: S0888725X1
 CIMPULUNG CW TESTING POSS SEARCH RO 452250N 0250350E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : -
 IDHS CODE: [] EPF CAT : 13C COMIREX NO:

25X1

1767
TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B1-73745-79 07 NOV 79 [] SEC CLASS: 14B MSN: [] 0005P ACCN: S088874 25X1

BIYSK ARMY BARRACKS AL2 + HEADQUARTERS MRD UR 523245N 0851210E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 6-E 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1
TOPCHIKHA ARMY BARRACKS AL1 UR 524845N 0830735E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 49 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA IIM 5B1-73761-79 07 NOV 79 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S088875 25X1

TCZEW AMMUNITION + EXPLOSIVES STGE FAC 503 PL 540435N 0184557E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5B1-73783-79 13 NOV 79 [] SEC CLASS: 14B MSN: [] 0003P ACCN: S088878 25X1

NIZHNEUDINSK MILITARY BARRACKS AL1 + HQ MRD UR 545450N 0990323E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 2-A 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA IIM 5B1-73809-79 13 NOV 79 [] SEC CLASS: 14B MSN: [] 0001P ACCN: S088879 25X1

BAKU ORDNANCE STORAGE DEPOT D01 UR 402655N 0495131E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 8-Q4 25X1
IDHS CODE: [] EPF CAT : 35F COMIREX NO: [] 25X1

DIA IIM 5B1-73800-79 13 NOV 79 [] SEC CLASS: 14 MSN: [] 0002P ACCN: S088880 25X1

YOSHKAR OLA AIRFIELD NORTH UR 564211N 0475332E

1768
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 05A

NPIC NO : - 15-N
COMIREX NO:

25X1

[Large Redacted Block]

25X1

DIA IIM 5B1-73815-79 15 NOV 79 [Redacted] SEC CLASS: 14B MSN: [Redacted] 0004P ACCN: S08890-25X1

DZERZHINSK TACTICAL SSM SUPPORT FACILITY

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 40

UR 533536N 0271355E
NPIC NO : - 101-A
COMIREX NO: [Redacted]

25X1
25X1

[Redacted Block]

25X1

DIA IIM 5B1-73814-79 19 NOV 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0002P ACCN: S08890-25X1

VASSIANOVKA AMMUNITION DEPOT DA1

WAC NO : [Redacted]
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 35F

UR 440910N 1323920E
NPIC NO : - 41-B1
COMIREX NO:

25X1

[Redacted Block]

25X1

1769
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1
25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-73856-79 19 NOV 79 [] SEC CLASS: 14B MSN: [] 0003P

ACCN: 50889125X1

JAROSLAW MILITARY INSTALLATIONS

PL 500100N 0224031E

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

NPIC NO : - 314-A
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-73876-79 21 NOV 79 [] SEC CLASS: 13 MSN: [] 0006P

ACCN: 50889125X1

MOSTAR AIRFRAME PLANT SOKO

YO 431840N 0174808E

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05G

NPIC NO : - 1-A
COMIREX NO: []

25X1
25X1

25X1

CIA IRP IS10178J-79 NOV 79 [] SEC CLASS: 25F MSN: [] 0016P

ACCN: 50889525X1

SHIPS, NAVAL UNITS SOVIET

VM

WAC NO : [] BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75D

NPIC NO : -
COMIREX NO:
VM 160700N 1081330E

DA NANG NAVAL STATION SHIPS SOVIET IDENT

1771

TOP SECRET CHESS RUFF

25X1
25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO :	NPIC NO :	- 71-A
IDHS CODE :	EPF CAT :	COMIREX NO :	
CAM RANH DF FACILITY FIX-24		VM 120103N	1091017E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 29-B
IDHS CODE :	EPF CAT :	COMIREX NO :	
CAM RANH NAVAL + LOG SUPPORT	BASE SHIPS SOV	VM 115445N	1091320E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 9-D
IDHS CODE :	EPF CAT :	COMIREX NO :	
CAM RANH PORT FACs NAVAL UNITS SOVIET IDENT		VM 115416N	1091235E
WAC NO :	BE/OBJ NO :	NPIC NO :	- 9-A2
IDHS CODE :	EPF CAT :	COMIREX NO :	

25X1
25X1
25X1
25X1
25X1
25X1
25X1
25X1

SOVIET NAVY SHIPS WERE OBSERVED IN VIETNAM FOR THE FIRST TIME IN EARLY MARCH 1979. SINCE THEN, SOVIET NAVAL SHIPS HAVE BEEN SEEN AT FOUR LOCATIONS IN VIETNAM--CAM RANH, DA NANG, HO CHI MINH CITY (SAIGON) AND HAIPHONG. AN ANALYSIS OF IMAGERY OF PORT FACILITIES AND SOVIET NAVAL ACTIVITY AT THESE LOCATIONS WAS UNDERTAKEN TO DETERMINE IF THERE IS ANY EVIDENCE TO INDICATE SOVIET PLANS TO ESTABLISH A PERMANENT NAVAL PRESENCE AT ANY OF THESE LOCATIONS, AND IF ACTIVITY OBSERVED IS COMPARABLE TO ACTIVITY SEEN IN OTHER THIRD WORLD COUNTRIES WHERE THE SOVIETS HAVE ESTABLISHED PERMANENT NAVAL FACILITIES. THE RESULTS OF THIS ANALYSIS INDICATE THAT:

CAM RANH APPEARS TO BE WELL SUITED FOR USE BY THE SOVIET NAVY AND CURRENT PHOTOGRAPHIC EVIDENCE INDICATES SOVIET INTEREST IN THE AREA. HOWEVER, IT IS TOO EARLY TO DETERMINE WHETHER OR NOT THEY PLAN TO ESTABLISH A PERMANENT NAVAL FACILITY HERE. THE SOVIETS APPEAR TO HAVE CONDUCTED HYDROGRAPHIC SURVEYS OF CAM RANH BAY AND TO HAVE REPAIRED OR EMPLACED NAVIGATIONAL AIDS THERE. ALSO, THE SOVIETS APPEAR TO BE REPAIRING OR UPGRADING SOME OF THE DETERIORATING SUPPORT FACILITIES ASHORE. A FIX 24 HIGH-FREQUENCY DIRECTION-FINDING FACILITY, BELIEVED TO BE MANNED BY SOVIET PERSONNEL, HAS ALSO BEEN CONSTRUCTED AT CAM RANH. HOWEVER, NO NAVAL BUNKERING OR REPAIR FACILITIES ARE CURRENTLY PRESENT AT CAM RANH, AND OIA WOULD EXPECT TO SEE SUCH FACILITIES IF THE SOVIETS WERE TO ESTABLISH A PERMANENT NAVAL PRESENCE HERE. ADDITIONALLY, NO SOVIET NAVY DEPOT SHIP HAS BEEN ASSIGNED TO CAM RANH. THE STATIONING OF A SOVIET DEPOT SHIP AT A FOREIGN PORT FACILITY NORMALLY INDICATES THAT THE SOVIET NAVY HAS BEEN GRANTED PERMISSION TO ESTABLISH A PERMANENT NAVAL PRESENCE.

FACILITIES AT DA NANG ARE ALSO SUITABLE FOR USE BY THE SOVIET NAVY; HOWEVER, THERE HAVE BEEN NO PHOTOGRAPHIC INDICATORS THAT THE SOVIETS INTEND TO ESTABLISH A PERMANENT NAVAL PRESENCE THERE, NOR DOES OIA BELIEVE THEY WILL. DA NANG IS USED PRIMARILY AS A TRANSSHIPMENT POINT FOR SEABORNE ARMS DELIVERIES, AND ANY USE OF THE EXISTING FACILITIES AT DA NANG BY THE SOVIET NAVY WOULD PROBABLY SEVERELY DISRUPT THE FLOW OF MILITARY CARGO THROUGH THIS PORT. THERE HAVE ALSO BEEN NO INDICATIONS THAT FACILITIES AT DA NANG WILL BE EXPANDED OR THAT NEW ONES WILL BE CONSTRUCTED FOR USE BY THE SOVIET NAVY.

VISITS OF A SINGLE SOVIET NAVAL SHIP TO HO CHI MINH CITY AND HAIPHONG WERE THE RESULT OF SOVIET EFFORTS TO ASSIST THE VIETNAMESE BY SHUTTLE MILITARY EQUIPMENT FROM SOUTH TO NORTH. THEY WERE NOT AN ATTEMPT TO ESTABLISH SOVIET NAVAL FACILITIES AT THESE PORTS.

NPIC MEMO 26 NOV 79 SEC CLASS: 14D MSN: 0004P ACCN: S089011
KRASNAYA RECHKA COMMAND CNTL RDO FAC BKR U/I UR 482040N 1350730E

1772
TOP SECRET CHESS RUFF

25X1
25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 7-29
 IUHS CODE: [Redacted] EPF CAT : 25D COMIREX NO: [Redacted]
 KRASNAYA RECHKA RADCOM STATION UR 481958N 1350653E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : - 7-W4
 IUHS CODE: [Redacted] EPF CAT : 25D COMIREX NO: [Redacted]

25X1

25X1

25X1

IMAGLRY OF KRASNAYA RECHKA RADIO COMMUNICATIONS STATION AND KRASNAYA RECHKA U/I CC RAD FAC/BNK WAS REVIEWED TO DETERMINE A POSSIBLE ASSOCIATION BETWEEN THE FACILITIES. THE TWO FACILITIES WERE FOUND TO BE ACTUALLY THE SAME, THEREFORE NPIC WILL DELETE KRASNAYA RECHKA RADIO STATION FROM THE IDF.*

DIA IIM 5B3-73917-79 27 NOV 79 [Redacted] SEC CLASS: 13 MSN: [Redacted] 0005P

ACCN: 5089025X1

BACAU AIRCRAFT REPAIR BASE IRAV RO 463122N 0265500E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
 IUHS CODE: [Redacted] EPF CAT : 05F COMIREX NO: [Redacted]

25X1

[Redacted]

25X1

DIA IIM 5B1-73906-79 27 NOV 79 [Redacted] SEC CLASS: 14 MSN: [Redacted] 0003P

ACCN: 5089025X1

LOMZA MILITARY INSTALLATIONS PL 531015N 0220350E
 WAC NO : [Redacted] BE/OBJ NO: [Redacted] NPIC NO : -
 IUHS CODE: [Redacted] EPF CAT : 35A COMIREX NO: [Redacted]

25X1

[Redacted]

25X1

1773
TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-73892-79 26 NOV 79 [] SEC CLASS: 14 MSN: [] 0005P

ACCN: S089016 25X1

ELK MILITARY INSTALLATIONS

PL 5349 N 02223 E

WAC NO : []

BE/OBJ NO:

NPIC NO : -

25X1

IDHS CODE: []

EPF CAT : 35A

COMIREX NO:

DIA IIM 5B3-73889-79 23 NOV 79 [] SEC CLASS: 14 MSN: [] 0002P

ACCN: S089017 25X1

PRUZHANY AIRFIELD HOUND MI-4

ACTIVITY

UR 523457N 0242251E

WAC NO : []

BE/OBJ NO: []

NPIC NO : - 61

25X1

IDHS CODE: []

EPF CAT : 05A

COMIREX NO: []

25X1

25X1

1774

TOP SECRET CHESS RUFF

25X1

25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

[Large Redacted Area]

25X1

LIA NBRG NDA06-5041-78 30 JUL 79

SEC CLASS: 05B MSN:

0001P

ACCN: S089060

MESSA NAVAL BASE + SHIP REPAIR YARD

UR 462947N 0304408E

WAC NO : [Redacted]

BE/OBJ NO: [Redacted]

NPIC NO : - 51-D

25X1

1775

TOP SECRET CHESS RUFF

[Redacted]

[Redacted]

25X1

25X1

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TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 75B COMIREX NO: []
ODESSA NAVAL BASE + SHIP REPAIR YARD UR 462947N 0304408E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 51-D
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X15X1

25X1
25X1

25X1

1776
TOP SECRET CHESS RUFF

25X1
25X1

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TOP SECRET



TOP SECRET

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