

Top Secret



PHOTOGRAPHIC
EXPLOITATION
PRODUCTS

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

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(See inside cover)

VOL. 4 OF 4 VOLUMES
ANNUAL INDEX TO
PHOTOGRAPHIC EXPLOITATION PRODUCTS
JANUARY-DECEMBER 1977

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MARCH 1978
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PHOTOGRAPHIC EXPLOITATION PRODUCTS

**ANNUAL INDEX TO
PHOTOGRAPHIC EXPLOITATION PRODUCTS
JANUARY-DECEMBER 1977**

MARCH 1978

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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, and foreign governments, 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
- BIBLO - Bibliography
- BIIB - Basic Imagery Interpretation Brief
- BIIR - Basic Imagery Interpretation Report
- BRAD - Briefing Aid (Only microfiche copies are available.)
- BREF - Photographic Interpretation Brief
- [Redacted]
- DPIR - Detailed Photographic Interpretation Report
- DSIIB - Direct Support Photographic Interpretation Brief
- DSIIR - Direct Support Photographic Interpretation Report
- ENDR - Engineering Drawing
- FEDR - Detailed Photographic Interpretation Report (Far East)
- FEGR - General Photographic Interpretation Report (Far East)
- FESR - Special Photographic Interpretation Report (Far East)
- IIM - Imagery Interpretation Memorandum
- IIR - Imagery Information Report
- INFR - Inter-office Memorandum
- IPIR - Initial Photographic Interpretation Report

- IRA - Imagery Research Aid
- IRP - Imagery Research Paper
- LOT - Letter of Transmittal
- MCS - Mission Coverage Statistics
- MEMO - Memorandum
- MIPIR - Multi-mission Imagery Interpretation Report
- MODL - Model Announcement
- NAIR - New Applications of Imagery Report
- NBRG - National Basic Reference Graphic
- NEDR - Detailed Photographic Interpretation Report (Near East)
- NEGR - General Photographic Interpretation Report (Near East)
- NEIR - Initial Photographic Interpretation Report (Near East)
- NESR - Special Photographic Interpretation Report (Near East)
- NEWS - Technical Newsletter
- NOTE - Photographic Interpretation Note
- OAK - Initial Mission Readout
- PAR - Photographic Analysis 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

[redacted]

SECURITY CLASSIFICATION

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

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]

20 - TOP SECRET [redacted]

21 - TOP SECRET [redacted]

22 - TOP SECRET CHESS [redacted]

23 - TOP SECRET CHESS [redacted]

24 - TOP SECRET CHESS RUFF [redacted]

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ORIGINATOR

ACDA - ARMS CONTROL AND DISARMAMENT AGENCY

AF - AIR FORCE

ARMY - ARMY

[redacted]

CIA - CENTRAL INTELLIGENCE AGENCY

DIA - DEFENSE INTELLIGENCE AGENCY

GMAIC - GUIDED MISSILE AND ASTRONAUTICS INTELLIGENCE
COMMITTEE

[redacted]

JOINT - JOINT (2 or more USIB members participating)

NATO - NORTH ATLANTIC TREATY ORGANIZATION

NAVY - NAVY

NPIC - NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NSA - NATIONAL SECURITY AGENCY

NTPC - NATIONAL TECHNICAL PROCESSING CENTER

[redacted]

SAC - SAC (544th RTS)

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

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

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

STL - SPACE TECHNOLOGY LABORATORY

[redacted]

USIB - UNITED STATES INTELLIGENCE BOARD

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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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NIKITOVKA TV BROADCASTING STATION PROB [] UR 482010N 0380200E
WAC NO : 0234 BE/OBJ NO: [] NPIC NO : - 28-A
IDHS CODE: [] EPF CAT : 25B COMIREX NO:

25X1
25X1

THE LATEST KEYHOLE PHOTOGRAPHY [] WAS REVIEWED TO DETERMINE IF ANY CHANGES HAD BEEN MADE TO THE RADIO-RELAY STATIONS IN THE DONETSK AREA. THE STATIONS THAT HAD CHANGES ARE CHERNUKHINO TV AND RADIO-RELAY STATION, VOROSHILOVGRAD RADIO-RELAY AND TV AND FM BROADCASTING CENTER, LISICHANSK RADIO-RELAY STATION, AND NIKITOVKA PROBABLE TV BROADCASTING STATION.*

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1543
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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NPIC SR SR012-77 MAR 77 TCS-9768-77 SEC CLASS: 14B MSN: 5P ACCN: S079635

NOVOSIBIRSK AIRFRAME PLT FRESCO REFINISHMENT UR 550401N 0825910E
 WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-F 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1
 AIRCRAFT, FRESCO MIG-17 SHIPPING CONT NEW UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05D COMIREX NO:
 KUPINO AIRFIELD FRESCO MIG-17 SHIPPING CONTS UR 542100N 0772114E
 WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 6 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
 PETROZAVODSK AIRFIELD FRESCO MIG-17 SHPG CONT UR 615000N 0341752E
 WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 15-B 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: 25X1

NOVOSIBIRSK MAY BE INVOLVED IN A PROGRAM OF REFINISHING/RETROFITTING MIG-17 (FRESCO) AIRCRAFT, PROBABLY FOR SHIPMENT TO AFRICA AND THE MIDDLE EAST. THIS ASSUMPTION IS BASED ON A DETAILED ANALYSIS OF PHOTOGRAPHY [] OF NOVOSIBIRSK AIRFRAME PLANT 153, KUPINO AIRFIELD, AND PETROZAVODSK AIRFIELD NORTHWEST. 25X1

NPIC SR SR011-77 MAR 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S079635 25X1

MISSILES, SS-17/18/19 CMPNT CALIBRATION FACs UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40A COMIREX NO:

MISSILE SYSTEM COMPONENT CALIBRATION FACILITIES HAVE BEEN NEWLY IDENTIFIED AT THE 12 ICBM COMPLEXES IN THE SOVIET UNION WHERE THE SS-17, -18, AND -19 MISSILE SYSTEMS ARE OR WILL BE DEPLOYED. TWO TYPES OF CALIBRATION BUILDINGS HAVE BEEN IDENTIFIED. ONE TYPE, A T-SHAPED BUILDING, WAS SEEN AT ONLY FOUR OF THE 12 COMPLEXES. THE OTHER TYPE, A RECTANGULAR BUILDING, WAS SEEN AT THE REMAINING EIGHT COMPLEXES. 25X1

1544
TOP SECRET CHESS RUFF

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

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[Large Redacted Area]

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DIA BIIB BDA05-0002-77

MAR 77

[Redacted]

SEC CLASS: 14

MSN:

[Redacted]

3P

ACCN: S079639

25X1

1545
TOP SECRET CHESS RUFF

[Redacted]

25X1



TOP SECRET CHESS RUFF



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PYONGYANG AIRFIELD EAST KN 390050N 1255046E
 WAC NO : 0380 BE/OBJ NO: [] NPIC NO : - 11
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

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THIS BRIEF UPDATES DIA, RDA-05/0004/70, [] PYONGYANG EAST AIRFIELD, NORTH KOREA, DEC 69
 (TOP SECRET RUFF []), WHICH IS THE BASIC REPORT FOR THIS INSTALLATION. SIGNIFICANT CHANGES
 OCCURRING AT THIS AIRFIELD BETWEEN DEC 1969 AND JAN 1976 INCLUDE REMOVAL AND REGRADING OF THE ALERT APRON
 ON THE EAST SIDE OF THE AIRFIELD, RAZING OF BOTH AUXILIARY CONTROL TOWERS, REDUCTION IN SIZE OF POL
 STORAGE AREA A AND REMOVAL OF POL STORAGE AREA B.*

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DIA IIM 5B3-52600-77 26 MAR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S0796425X1

PECHORA/KAMENKA AIRFIELD POL STORAGE CAPACITY UR 650322N 0564023E
 WAC NO : 0093 BE/OBJ NO: [] NPIC NO : - 11
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: []

25X1

25X1

DIA IIM 5B3-52599-77 25 MAR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S0796425X1

TIRASPOL AIRFIELD HANGARETTE ANT/LTNG ARRST UR 465207N 0293531E
 WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 74-B
 IDHS CODE: [] EPF CAT : 25H COMIREX NO: []

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NPIC MEMO [] 31 MAR 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S0796425X1

VENTSPILS DF FACILITY SEARCH UR 572220N 0213400E
 WAC NO : 0152 BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 25A COMIREX NO:

NPIC SR SR015-77 MAR 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S0796425X1

ELECTRONICS, SIGNAL UNITS DEPLOYMENT PATTERNS PL
 WAC NO : [] BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 25 COMIREX NO:
 WALCZ ARMY BARRACKS 4 SIGNAL UNIT TRNG AREA PL 531652N 0162849E
 WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 260-A2
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
 WALCZ ARMY BARRACKS 4 SIGNAL UNIT TRNG AREA PL 531652N 0162849E

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1546

TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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WAC NO : 0169	BE/OBJ NO: []	NPIC NO : - 260-A2	
IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []	
TORUN MILITARY TRNG AREA 416	CP/COMMO EXER	PL 525622N 0183600E	
WAC NO : 0169	BE/OBJ NO: []	NPIC NO : - 154-B1	
IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []	
TORUN MILITARY TRNG AREA 416	CP/COMMO EXER	PL 525622N 0183600E	
WAC NO : 0169	BE/OBJ NO: []	NPIC NO : - 154-B1	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	
ZAMBROW MILITARY TRAINING AREA	COMMO EXERCISE	PL 530200N 0220630E	
WAC NO : 0168	BE/OBJ NO: []	NPIC NO : - 124	
IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []	
ZAMBROW MILITARY TRAINING AREA	COMMO EXERCISE	PL 530200N 0220630E	
WAC NO : 0168	BE/OBJ NO: []	NPIC NO : - 124	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	

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A COMPARISON OF THE COMMUNICATIONS TRAINING AREA AT WALCZ ARMY BARRACKS 004 AND TWO OTHER TRAINING AREAS REVEALS A PHOTOGRAPHIC SIGNATURE OF FIELD-DEPLOYED POLISH SIGNAL UNITS. THIS SIGNATURE CONSISTS OF THE LARGE NUMBER AND THE PATTERN OF VEHICLE REVETMENTS. THE REVETMENTS ARE CLOSE TOGETHER AND ARE PERPENDICULAR TO THE ACCESS ROADS. IN MANY CASES, THE REVETMENTS ARE ON EACH SIDE OF THE ACCESS ROAD.

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1547
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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DIA BIIR RDA05-0033-76 MAR 77 [REDACTED] SEC CLASS: 14A MSN: [REDACTED] 6P ACCN: S07964825X1

AN NASIRIYAH AIRFIELD SY 335545N 0365235E
WAC NO : 0426 BE/OBJ NO: [REDACTED] NPIC NO : - 133
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED]

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THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF AN NASIRIYAH AIRFIELD DURING THE PERIOD NOVEMBER 1971 THROUGH JANUARY 1976. THE JET FIGHTER BASE IS 37 NM NORTHEAST OF DAMASCUS, SYRIA. AOB [REDACTED] WAS THREE FISHBED. DURING THE REPORTING PERIOD AN AAM SUPPORT FACILITY AND TWO DOUBLE-BAY HANGARETTES WERE CONSTRUCTED. FEATURES DESCRIBED IN THIS REPORT INCLUDE A [REDACTED] ASPHALT AND CONCRETE RUNWAY, FOUR AUXILIARY RUNWAYS (A-D), TAXIWAYS AND PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH A TOTAL CAPACITY OF 3,218 BARRELS (135,140 U.S. GALLONS), AIRCRAFT MAINTENANCE, ORDNANCE (MISSILE AND CONVENTIONAL), ACCOMMODATIONS, TRANSPORTATION, UTILITIES, DEFENSES, ASSOCIATED OBJECTS, AND SECURITY.

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CIA BIIR RCS13-0006-77 MAR 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 8P ACCN: S07964825X1

INDUSTRY, IRON + STEEL PLANTS CHECHIANGSHENG CH
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 30C COMIREX NO: [REDACTED]
LICHIANHSIANG IRON PLANT CH 305630N 1195900E
WAC NO : 0493 BE/OBJ NO: [REDACTED] NPIC NO : [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 30C COMIREX NO: [REDACTED]

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1548
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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25X1

SANMEN IRON PLANT

WAC NO : 0492
IDHS CODE: []

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

CH 290515N 1212420E
NPIC NO :
COMIREX NO:

WU-I IRON PLANT

WAC NO : 0493
IDHS CODE: []

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

CH 285600N 1194925E
NPIC NO :
COMIREX NO:

HANGCHOU IRON + STEEL PLANT

WAC NO : 0492
IDHS CODE: []

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

CH 302127N 1200951E
NPIC NO : - 16-K
COMIREX NO: []

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IN LATE 1976 THERE WERE FOUR PLANTS IN CHEKIANG PROVINCE ENGAGED IN THE PRODUCTION OF IRON, STEEL, AND ROLLED STEEL PRODUCTS. THREE ARE PIG IRON PLANTS AND ONE IS AN IRON AND STEEL PLANT. THERE ARE TWO MEDIUM AND FOUR SMALL BLAST FURNACES AT THE PLANTS WHICH ARE CAPABLE OF PRODUCING AN ESTIMATED 1,120 METRIC TONS OF PIG IRON PER DAY. A SIDE-BLOWN CONVERTER BUILDING IS IN USE IN THE PROVINCE. IN ADDITION, THERE ARE FOUR ROLLING MILLS WITH A TOTAL ROOF COVER OF APPROXIMATELY 33,510 SQUARE METERS.

CONSTRUCTION ACTIVITY WAS EVIDENT AT TWO PLANTS. A SINTERING PLANT AND AN ADDITION TO A ROLLING MILL WERE UNDER CONSTRUCTION AT ONE PLANT AND AN UNIDENTIFIED BUILDING AT ANOTHER. LI-CHIA-HSIANG IRON PLANT AND HANG-CHOU IRON AND STEEL PLANT WERE OPERATING WHEN SEEN ON THE LATEST AVAILABLE PHOTOGRAPHY; THE IRON PLANTS AT SAN-MEN AND WU-I DID NOT APPEAR TO BE OPERATING WHEN LAST SEEN.

THIS REPORT SUMMARIZES THE PRODUCTION FACILITIES AT EACH PLANT AND PROVIDES AN ANNOTATED PHOTOGRAPH OF A SELECTED PLANT. A MAP SHOWING PLANT LOCATIONS IS ALSO INCLUDED. THE CUTOFF DATE FOR INFORMATION IN THIS REPORT IS OCTOBER 1976.

AF PAR 1-77 14 JAN 77 SEC CLASS: 08J MSN: 2P ACCN: S079650

AIRCRAFT, BLINDER C TU-22 WING CAMBER

WAC NO :
IDHS CODE:

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

UR
NPIC NO :
COMIREX NO:

AIRCRAFT, FIDDLER TU-128 WING CAMBER

WAC NO :
IDHS CODE:

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

UR
NPIC NO :
COMIREX NO:

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A REVIEW OF BLINDER AND FIDDLER PHOTOGRAPHY SHOWS THAT BOTH AIRCRAFT'S WINGS INCORPORATE UPPER SURFACE CAMBER. ALTHOUGH CAMBER CAN BE SEEN IN APPROPRIATE PHOTOGRAPHY, THE MAGNITUDE COULD NOT BE PRECISELY DETERMINED WITHIN THE TIME ALLOTTED FOR ANALYSIS.*

AF PAR 528-77 25 FEB 77 SEC CLASS: 13 MSN: 2P ACCN: S079651

KAMCHATKA MISSILE IMPACT AREAS ANT AZIMUTHS

WAC NO : 0132
IDHS CODE: []

BE/OBJ NO:
EPF CAT : 25C

UR 5712 N 16133 E
NPIC NO :
COMIREX NO:

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1549
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

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AF REPT 664-76 10 NOV 76 [] SEC CLASS: 13 MSN: [] 6P ACCN: S079653 25X1

MISSILES, SS-19 MISSILE CANISTER UR

WAC NO :	BE/OBJ NO: []	NPIC NO :	[]	25X1
IDHS CODE:	EPF CAT : 40A	COMIREX NO:	[]	
TYURATAM MTC ICBM SITE 65/6	SS-19 CAN CHRONO	UR	460512N 0625451E	
WAC NO : 0246	BE/OBJ NO: []	NPIC NO :	- 6-E4	25X1
IDHS CODE: []	EPF CAT : 40A	COMIREX NO:	[]	25X1

THIS PAR PROVIDES A DETAILED DESCRIPTION OF THE SS-19 MISSILE CANISTER AND A CHRONOLOGY OF SS-19 CANISTERS OBSERVED AT TYURATAM ICBM LAUNCH TEST SITE 65/6 FROM 14 MARCH 1973 THROUGH 22 APRIL 1976. IT UPDATES PAR 75-608.*

AF REPT 678-76 19 NOV 76 [] SEC CLASS: 13 MSN: [] 31P ACCN: S079654 25X1

RAMENSKOYE AEROHYDRODYNAMIC INSTITUTE CENTRAL UR 553549N 0380607E

WAC NO : 0167	BE/OBJ NO: []	NPIC NO :	- 50-A	25X1
IDHS CODE: []	EPF CAT : 05B	COMIREX NO:	[]	25X1

THIS REPORT UPDATES ALL PREVIOUS REPORTS AND DRAWINGS ON RAMENSKOYE CENTRAL AEROHYDRODYNAMIC INSTITUTE. IT INCLUDES A CHRONOLOGY OF ROOF COVERAGE AND FLOORSPACE ALONG WITH A FUNCTIONAL IDENTIFICATION OF EACH SIGNIFICANT BUILDING/STRUCTURE. THIS REPORT IS KEYED TO DRAWINGS 71C4513, 71C4560, 71C6560, 73B6508, 76D4530, AND 76E6520.*

AF REPT 680-76 15 NOV 76 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079655 25X1

PLESETSK MTC MISSILE HDLG FAC TELEMETRY ANIS UR 624600N 0402300E

WAC NO : 0102	BE/OBJ NO: []	NPIC NO :	- 27-M	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO:	[]	25X1
PLESETSK MTC ICBM SITE 6	COMMO EQUIPMENT	UR	630057N 0405231E	
WAC NO : 0102	BE/OBJ NO: []	NPIC NO :	- 27-J8	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO:	[]	25X1
PLESETSK MTC ICBM SITE 5	COMMO EQUIPMENT	UR	630316N 0405720E	
WAC NO : 0102	BE/OBJ NO: []	NPIC NO :	- 27-J1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO:	[]	25X1

AF REPT 682-76 20 OCT 76 [] SEC CLASS: 14 MSN: [] 4P ACCN: S07965 25X1

AIRCRAFT, BACKFIRE B/CHARGER B ENGINE COMP UR

WAC NO :	BE/OBJ NO: []	NPIC NO :	[]	25X1
IDHS CODE:	EPF CAT : 05D	COMIREX NO:	[]	
AIRCRAFT, CHARGER B/BACKFIRE	B ENGINE COMP	UR	[]	
WAC NO :	BE/OBJ NO: []	NPIC NO :	[]	25X1

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AF REPT 685-76 08 NOV 76 [] SEC CLASS: 13 MSN: [] 2P ACCN: S079657 25X1

NOVOSIBIRSK AIRFRAME PLANT SILO COMPNTS SRCH UR 550401N 0825910E
WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-F 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1
NOVOSIBIRSK AIRFRAME PLANT SILO COMPNTS SRCH UR 550401N 0825910E
WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-F 25X1
IDHS CODE: [] EPF CAT : 40A COMIREX NO: [] 25X1
NOVOSIBIRSK AVIATION INST SILO COMPNTS SEARCH UR 550413N 0825951E
WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-F4 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1
NOVOSIBIRSK AVIATION INST SILO COMPNTS SEARCH UR 550413N 0825951E
WAC NO : 0162 BE/OBJ NO: [] NPIC NO : - 7-F4 25X1
IDHS CODE: [] EPF CAT : 40A COMIREX NO: [] 25X1

AF REPT 688-76 09 NOV 76 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079658 25X1

AIRCRAFT, RAM H UR
WAC NO : BE/OBJ NO: 610318 NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS REPORT PROVIDES DIMENSIONS AND A DETAILED DESCRIPTION OF THE RAM-H OBSERVED AT RAMENSKOYE FLIGHT TEST CENTER ON PHOTOGRAPHY [] IT IS KEYED TO DRAWING 73C4502.* 25X1

AF REPT 689-76 15 NOV 76 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079659 25X1

WUCHING OPTICAL TRACKING STATION CH 392200N 1170450E
WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 79-F 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS REPORT PROVIDES A CHRONOLOGICAL ANALYSIS OF THE WUCHING OPTICAL TRACKING STATION [] A SEARCH OF 10 SSM/SPACE TRACKING FACILITIES YIELDED NO INDICATION OF AN OPTICAL TRACKING BUILDING SIMILAR TO THE WU-CHING FACILITY.* 25X1

AF PAR 690-76 15 NOV 76 [] SEC CLASS: 13 MSN: [] 2P ACCN: S079660 25X1

KOPAKO RADAR FACILITY SEARCH CH 3327 N 07942 E
WAC NO : 0432 BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

AF REPT 691-76 08 NOV 76 [] SEC CLASS: 13 MSN: [] 4P ACCN: S079661 25X1

1551
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SHUANGCHENG TZU MTC ICBM SITE B1/2 CH 411828N 1001854E
WAC NO : 0287 BE/OBJ NO: [] NPIC NO : - 1-N
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES AN ACTIVITY AND CONSTRUCTION ANALYSIS OF LAUNCH TEST SITE B1/2, SHUANGCHENG TZU MTC. IT SUPPLEMENTS PAR 76-683 AND REFERENCED ANNOTATIONS ARE KEYED TO FTD DRAWING 73D6525.*

AF REPT 692-76 15 NOV 76 [] SEC CLASS: 13 MSN: [] 3P ACCN: S07966225X1

WUCHAI MTC SSM TRACKING FACILITY 6 CH 382740N 1111300E
WAC NO : 0382 BE/OBJ NO: [] NPIC NO : - 76
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
WUCHAI MTC SSM TRACKING FACILITY 7 CH 380900N 1111000E
WAC NO : 0382 BE/OBJ NO: [] NPIC NO : - 23
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] F

25X1
25X1
25X1
25X1

THIS REPORT PROVIDES A CHRONOLOGY OF RECENT MODIFICATIONS AND/OR ADDITIONS TO EXISTING AREAS OF WUCHAI SSM TRACKING FACILITIES 6 AND 7.*

AF REPT 693-76 15 NOV 76 [] SEC CLASS: 13 MSN: [] 2P ACCN: S07966225X1

LUKHOVITSY AIRFIELD ELECTRONICS COMPARISON UR 545420N 0390141E
WAC NO : 0166 BE/OBJ NO: [] NPIC NO : - 12
IDHS CODE: [] EPF CAT : 25H COMIREX NO: []
MOSKVA/RAMENSKOYE AIRFIELD ELECTRONICS COMP UR 553405N 0380712E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 50-A1
IDHS CODE: [] EPF CAT : 25H COMIREX NO: []

25X1
25X1
25X1
25X1

KH PHOTOGRAPHY FROM JANUARY-SEPTEMBER 1971 WAS EXAMINED FOR ELECTRONICS WHICH WERE COMMON TO BOTH RAMENSKOYE AND LUKHOVITSY AIRFIELDS.*

AF REPT 694-76 16 NOV 76 [] SEC CLASS: 13 MSN: [] 9P ACCN: S07966225X1)

DERAZHNYA SSM COMPLEX ANTENNAS HARDENED UR 491254N 0270818E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 113-A1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
DOMBAROVSKIY SSM COMPLEX ANTENNAS HARDENED UR 510746N 0600957E
WAC NO : 0236 BE/OBJ NO: [] NPIC NO : - 12-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
KARTALY SSM COMPLEX ANTENNAS HARDENED UR 525311N 0603417E
WAC NO : 0164 BE/OBJ NO: [] NPIC NO : - 5-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
225X1
25X1
25X1
25X1
25X1

1552
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KOZELSK SSM COMPLEX ANTENNAS HARDENED UR 540734N 0352922E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 137
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
PERVOMAYSK SSM COMPLEX ANTENNAS HARDENED UR 481224N 0305416E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 44-C1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YEDROVO SSM COMPLEX ANTENNAS HARDENED UR 574640N 0331315E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 72-A
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

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

AF REPT

696-76 04 FEB 77 []

SEC CLASS: 13 MSN: []

37P

ACCN: 5079665

FUSHUN COMSAT STATION DOMESTIC PROB CH 415850N 1240145E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 36-B5
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
HSINCHENGZU COMSAT STATION SOUTH PROB CH 405139N 1194034E
WAC NO : 0280 BE/OBJ NO: [] NPIC NO : - 105-C
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
SHAHSIEN SPACE TRACKING FACILITY POSS CH 262345N 1174830E
WAC NO : 049A BE/OBJ NO: [] NPIC NO : - 150-A
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
YUNGAN COMSAT STATION DOMESTIC PROB CH 255755N 1172059E
WAC NO : 049B BE/OBJ NO: [] NPIC NO : - 52-E
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
CHANGCHIANG SSM/SPACE TRACKING FACILITY CH 192139N 1090822E
WAC NO : 0618 BE/OBJ NO: [] NPIC NO : - 68
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
FUHOU COMSAT STATION DOMESTIC PROB CH 260400N 1191430E
WAC NO : 0499 BE/OBJ NO: [] NPIC NO : - 2-P
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
CHUNGHO COMSAT STATION PROB CH 443500N 1274610E
WAC NO : 0283 BE/OBJ NO: [] NPIC NO : - 166
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
CHINGYUAN COMSAT STATION DOMESTIC PROB CH 415830N 1251205E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 162-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
CHINGMEN SPACE TRACKING FACILITY CH 310625N 1121130E
WAC NO : 0494 BE/OBJ NO: [] NPIC NO : - 35-A1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
CHIANGWAN COMSAT STATION DOMESTIC PROB CH 311810N 1212700E
WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 28-W3
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []
CHINAN SPACE TRACKING FACILITY CH 362720N 1170840E

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

1553

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 69-E1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
CHENGKU COMSAT STATION DOMESTIC PROB		CH 331250N 1071540E	
WAC NO : 0384	BE/OBJ NO: []	NPIC NO : - 14-R1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
CHENGCHIANG COMSAT STATION DOMESTIC PROB		CH 244040N 1025615E	
WAC NO : 0496	BE/OBJ NO: []	NPIC NO : - 8-A	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
CHANGCHUN SSM/SPACE TRACKING FACILITY		CH 434345N 1253205E	
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 28-D	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
CHANGKOCHUANG COMSAT STATION DOMESTIC PROB		CH 400600N 1165440E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 75-C	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
HSINHUA SSM/SPACE TRACKING FACILITY		CH 274605N 1111535E	
WAC NO : 0497	BE/OBJ NO: []	NPIC NO : - 48-A1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
HSINHSIEN COMSAT STATION WEST		CH 382557N 1122745E	
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 96-A1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
HSINHSIEN COMSAT STATION DOMESTIC PROB		CH 383050N 1123238E	
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 96	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
HALAKASSUTE SSM/SPACE TRACKING FACILITY		CH 404521N 0871327E	
WAC NO : 0330	BE/OBJ NO: []	NPIC NO : - 37	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
CHANTAOTSUN SPACE TRACKING FACILITY		CH 393445N 1143226E	
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 65-A	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
LASA RADIO COMMUNICATIONS RECEIVER STA WEST		CH 293824N 0910244E	
WAC NO : 0437	BE/OBJ NO: []	NPIC NO : - 2-Q4	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
LASA SSM/SPACE TRACKING FACILITY		CH 293855N 0910516E	
WAC NO : 0437	BE/OBJ NO: []	NPIC NO : - 2-Q2	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
LAIYANG SSM/SPACE TRACKING FACILITY		CH 370311N 1204642E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 31-B	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
KUNMING SSM/SPACE TRACKING FACILITY		CH 245435N 1024810E	
WAC NO : 0496	BE/OBJ NO: []	NPIC NO : - 4-H2	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1.1
LANCHOU COMSAT STATION DOMESTIC PROB		CH 355632N 1041032E	
WAC NO : 0384	BE/OBJ NO: []	NPIC NO : - 65-C	25X1

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

PEICHING ELECTRONICS R+D FACILITY RADCOM RCVR	CH 395744N 1162304E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 50-P4
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
LIUAN SPACE TRACKING FACILITY	CH 313606N 1160719E	
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 86-B1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
PEICHING SPACE TRACKING RADIO COMMO RCVR STA	CH 400321N 1161459E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 47-E1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
PEICHING ELECTRONICS FACILITY U/I	CH 395450N 1163540E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 73-A2
IDHS CODE: []	EPF CAT : 25	COMIREX NO: []
TIENWEI MTC SSM TRACKING FACILITY 4	CH 260030N 1022720E	
WAC NO : 0496	BE/OBJ NO: []	NPIC NO : - 12
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
NANCHING RADIO COMMUNICATIONS RCVR STA ENE	CH 320555N 1185350E	
WAC NO : 0386	BE/OBJ NO: []	NPIC NO : - 17-03
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
NANNING SSM/SPACE TRACKING FACILITY	CH 225607N 1082738E	
WAC NO : 0615	BE/OBJ NO: []	NPIC NO : - 14-E
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
NANSHENG SPACE TRACKING FACILITY	CH 263352N 1172650E	
WAC NO : 0498	BE/OBJ NO: []	NPIC NO : - 15A-B
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
CHANI SPACE TRACKING FACILITY	CH 253814N 1034252E	
WAC NO : 0496	BE/OBJ NO: []	NPIC NO : - 2-E
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

THIS REPORT UPDATES PAR 75-571 AND PROVIDES AN ANALYSIS OF SSM/SPACE TRACKING FACILITIES; PROBABLE DOMESTIC COMSAT STATIONS; AND OTHER NEW TRACKING FACILITIES LOCATED IN THE PRC.*

AF REPT 698-76 25 JAN 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: S07966(25X1)

KAPUSTIN YAR MTC ELCT FAC PAD A1/2 R+D RADAR	UR 485008N 0453911E	
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 10-6
IDHS CODE: []	EPF CAT : 25E	COMIREX NO: []
KAPUSTIN YAR MTC ELCT FAC PAD A1/2 R+D RADAR	UR 485008N 0453911E	
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 10-6
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

THIS REPORT PROVIDES AN ANALYSIS AND COUNT OF ALL CONTROL VANS AND POSSIBLE ENVIRONMENTAL CONTROL UNITS LOCATED ON THE HARDSTANDS BETWEEN PADS A1+A2 AT KAPUSTIN YAR MTC ELECTRONICS RELATED FACILITY. IT ALSO INCLUDES AN ANALYSIS OF THE R+D RADAR LOCATED ON PAD A2.*

1556
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF REPT 704-76 24 JAN 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 23P

ACCN: S079667 25X1

TUNGTAO ICBM COMPLEX	WAC NO : 0497	BE/OBJ NO: [REDACTED]	CH 261430N 1095358E
	IDHS CODE: [REDACTED]	EPF CAT : 40A	NPIC NO :
TUNGTAO ICBM DIVISION HEADQUARTERS PROB	WAC NO : 0497	BE/OBJ NO: [REDACTED]	COMIREX NO:
	IDHS CODE: [REDACTED]	EPF CAT : 40A	CH 263207N 1094421E
TUNGTAO ICBM RIM FACILITY PROB	WAC NO : 0497	BE/OBJ NO: [REDACTED]	NPIC NO : - 22-D
	IDHS CODE: [REDACTED]	EPF CAT : 40A	COMIREX NO: [REDACTED]
TUNGTAO ICBM REGIMENT HEADQUARTERS PROB	WAC NO : 0497	BE/OBJ NO: [REDACTED]	CH 263242N 1093441E
	IDHS CODE: [REDACTED]	EPF CAT : 40A	NPIC NO : - 22-E
TUNGTAO ICBM SUPPORT AREA A	WAC NO : 0497	BE/OBJ NO: [REDACTED]	COMIREX NO: [REDACTED]
	IDHS CODE: [REDACTED]	EPF CAT : 40A	CH 261550N 1095515E
CHINGHSIEN AIRFIELD U/C	WAC NO : 0497	BE/OBJ NO: [REDACTED]	NPIC NO : - 100-C
	IDHS CODE: [REDACTED]	EPF CAT : 40A	COMIREX NO: [REDACTED]
LIUCHOU/LOYANG RAIL LINE CONSTRUCTION STATUS	WAC NO : 0497	BE/OBJ NO: [REDACTED]	CH 261535N 1095510E
	IDHS CODE: [REDACTED]	EPF CAT : 05A	NPIC NO : - 100-C1
LOYANG/LICHOU RAIL LINE CONSTRUCTION STATUS	WAC NO : 0497	BE/OBJ NO: [REDACTED]	COMIREX NO: [REDACTED]
	IDHS CODE: [REDACTED]	EPF CAT : 85B	CH 263800N 1093910E
TUNGTAO ICBM SUPPORT AREA B	WAC NO : 0497	BE/OBJ NO: [REDACTED]	NPIC NO :
	IDHS CODE: [REDACTED]	EPF CAT : 40A	COMIREX NO:
TUNGTAO ICBM CAVE/TUNNEL CONSTRUCTION NORTH	WAC NO : 0497	BE/OBJ NO: [REDACTED]	CH 2419 N 10923 E
	IDHS CODE: [REDACTED]	EPF CAT : 40A	NPIC NO :
TUNGTAO ICBM CAVE/TUNNEL CONSTRUCTION SOUTH	WAC NO : 0497	BE/OBJ NO: [REDACTED]	COMIREX NO:
	IDHS CODE: [REDACTED]	EPF CAT : 40A	CH 3441 N 11228 E
TUNGTAO ICBM SITE CONSTRUCTION	WAC NO : 0497	BE/OBJ NO: [REDACTED]	NPIC NO :
	IDHS CODE: [REDACTED]	EPF CAT : 40A	COMIREX NO:
			CH 261525N 1095205E
			NPIC NO : - 100-C4
			COMIREX NO: [REDACTED]
			CH 261830N 1095655E
			NPIC NO : - 100-C2
			COMIREX NO: [REDACTED]
			CH 261120N 1095400E
			NPIC NO : - 100-C3
			COMIREX NO: [REDACTED]
			CH 261338N 1095351E
			NPIC NO : - 100
			COMIREX NO: [REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

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25X1

25X1

25X1

25X1

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25X1

25X1

THIS REPORT PROVIDES A DETAILED PHOTO ANALYSIS OF THE TUNG-TAO MISSILE LAUNCH COMPLEX/ICBM [REDACTED] IT UPDATES PAR 74-530.*

25X1

25X1

1557 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR A3515-76 21 OCT 76 [] SEC CLASS: 13 MSN: 1P ACCN: S079668 25X1
 AIRCRAFT, BACKFIRE B ENGINE UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 05D COMIREX NO:

AF ENDR A4001-76 19 SEP 76 SEC CLASS: 04 MSN: 1P ACCN: S079669
 AIRCRAFT, FISHBED L MIG-21 LAUNCH RAIL U/I UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 05D COMIREX NO:

AF ENDR B1501-77 28 DEC 76 [] SEC CLASS: 13 MSN: 1P ACCN: S079672 25X1
 ELECTRONICS, MISSILE CNTRL VAN/ENVRNMTL CNTRL UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 25C COMIREX NO:

AF ENDR B3002-77 20 JAN 77 SEC CLASS: 07 MSN: 1P ACCN: S079671
 AIRCRAFT, FLOGGER D MIG-23 MULTI-BOMB RACK UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 05D COMIREX NO:

AF ENDR B6508-1-73 15 OCT 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079672 25X1
 RAMENSKOYE AEROHYDRODYNAMIC INST POWER FACILS UR 553549N 0380607E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 50-A 25X1
 IDHS CODE: [] EPF CAT : 05B COMIREX NO: [] 25X1

AF ENDR C1521-76 9 NOV 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079672 25X1
 KAPUSTIN YAR MTC ELCT RLTD FAC PAD A2 R+D RDR UR 485008N 0453911E
 WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-G 25X1
 IDHS CODE: [] EPF CAT : 25E COMIREX NO: [] 25X1
 KAPUSTIN YAR MTC ELCT RLTD FAC PAD A2 R+D RDR UR 485008N 0453911E
 WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-G 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1
 ELECTRONICS, R+D RADAR KAPUSTIN YAR MTC UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 25A COMIREX NO:

AF ENDR C3001-77 12 JAN 77 SEC CLASS: 07 MSN: 1P ACCN: S079674

1558

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AIRCRAFT, BADGER 6 TU-16 NOSE DEVICE

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

UR

25X1

AF ENDR C4513-2-71 15 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079675 25X1

RAMENSKOYE AEROHYDRODYNAMIC INSTITUTE CENTRAL

WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-A
IDHS CODE: EPF CAT : 05B COMIREX NO:

UR

25X1
25X1

AF ENDR C4527-76 20 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079676 25X1

MISSILES, SS-19 MISSILE CANISTER

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

UR

25X1

AF ENDR C4531-76 15 DEC 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079677 25X1

TUNGTAO ICBM COMPLEX

WAC NO : 0497 BE/OBJ NO: CH 261430N 1095358E
IDHS CODE: EPF CAT : 40A NPIC NO :
COMIREX NO:

CH

25X1
25X1

AF ENDR C4560-1-71 15 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079678 25X1

RAMENSKOYE AEROHYDRODYNAMIC INSTITUTE CENTRAL

WAC NO : 0167 BE/OBJ NO: NPIC NO : - 50-A
IDHS CODE: EPF CAT : 05B COMIREX NO:

UR

25X1
25X1

AF ENDR C6503-3-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079679 25X1

PLESETSK MTC ICBM SITE 11 AZIMUTH MARKERS

WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-K6
IDHS CODE: EPF CAT : 40A COMIREX NO:

UR

25X1
25X1

AF ENDR C6504-3-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079680 25X1

PLESETSK MTC ICBM SITE 14 AZIMUTH MARKERS

WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-K8
IDHS CODE: EPF CAT : 40A COMIREX NO:

UR

25X1
25X1

AF ENDR C6505-4-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: 5079681 25X1

1559
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

PLESETSK MTC ICBM SITE 17 AZIMUTH MARKERS UR 625448N 0412407E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R1
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

AF ENDR C6506-4-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: S0796825X1

PLESETSK MTC ICBM SITE 18 AZIMUTH MARKERS UR 625753N 0413918E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R2
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1
25X1

AF ENDR C6507-1-74 17 DEC 76 SEC CLASS: 13 MSN: 1P

ACCN: S0796825X1

KAPUSTIN YAR MTC ELCT RELATED FACIL PAD A1/2 UR 485008N 0453911E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 10-G
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

AF ENDR C6507-4-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: S0796825X1

PLESETSK MTC ICBM SITE 19 AZIMUTH MARKERS UR 625552N 0413623E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R3
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

AF ENDR C6508-4-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: S0796825X1

PLESETSK MTC ICBM SITE 20 AZIMUTH MARKERS UR 625456N 0414118E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R4
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

AF ENDR C6509-4-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: S0796825X1

PLESETSK MTC ICBM SITE 22 AZIMUTH MARKERS UR 625313N 0414530E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R6
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

AF ENDR C6510-4-69 21 OCT 76 SEC CLASS: 13 MSN: 1P

ACCN: S0796825X1

PLESETSK MTC ICBM SITE 23 AZIMUTH MARKERS UR 630040N 0413246E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R7
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

PLESETSK MTC ICBM SITE 24 AZIMUTH MARKERS UR 630042N 0413312E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 27-R8
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1
25X1

1560
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR C6519-76 04 OCT 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079688^{25X1}
 MOSKVA/RAMENSKOYE AIRFIELD TOWER U/I UR 553405N 0380712E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 50-A^{25X1}
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: []^{25X1}

AF ENDR C6560-1-71 15 OCT 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079689^{25X1}
 RAMENSKOYE AEROHYDRODYNAMIC INSTITUTE PPLN UR 553549N 0380607E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 50-A^{25X1}
 IDHS CODE: [] EPF CAT : 05B COMIREX NO: []^{25X1}

AF ENDR D1018-1-76 14 JAN 77 SEC CLASS: 04 MSN: [] 1P ACCN: S079690
 MISSILES, AA-6 VARIANTS UR
 WAC NO : BE/OBJ NO: [] NPIC NO :^{25X1}
 IDHS CODE: [] EPF CAT : 40J COMIREX NO:

AF ENDR D1503-77 07 FEB 77 [] SEC CLASS: 14 MSN: [] 1P ACCN: S079691^{25X1}
 SPACE, SALYUT-5 UR
 WAC NO : BE/OBJ NO: [] NPIC NO :^{25X1}
 IDHS CODE: [] EPF CAT : 40H COMIREX NO:

AF ENDR D4530-76 15 OCT 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079692^{25X1}
 RAMENSKOYE AEROHYDRODYNAMIC INST RAMJET TFST UR 553549N 0380607E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 50-A^{25X1}
 IDHS CODE: [] EPF CAT : 05B COMIREX NO: []^{25X1}

AF ENDR D6517-76 17 SEP 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079693^{25X1}
 TYURATAM MTC ICBM SITE G5/6 CANISTER CHRONO UR 460512N 0625451E
 WAC NO : 0246 BE/OBJ NO: [] NPIC NO : - 6-E4^{25X1}
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []^{25X1}

AF ENDR D6527-1-75 20 OCT 76 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079694^{25X1}
 TYURATAM MTC ICBM SITE G5/6 CANISTER CHRONO UR 460512N 0625451E
 WAC NO : 0246 BE/OBJ NO: [] NPIC NO : - 6-E4^{25X1}
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []^{25X1}

AF ENDR D6588-2-70 25 JAN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079695^{25X1}

1561

TOP SECRET CHESS RUFF

25X1



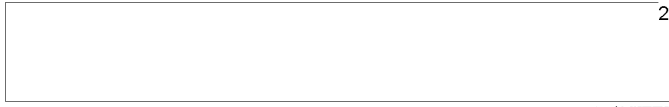
TOP SECRET CHESS RUFF



25X1

	ZAGORSK ROCKET ENGINE TEST FAC KRASNOZAVODSK	UR	562544N 0381055E	
	WAC NO : 0154	BE/OBJ NO: [REDACTED]	NPIC NO : - 93	
	IDHS CODE: [REDACTED]	EPF CAT : 40E	COMIREX NO: [REDACTED]	25X1
AF	ENDR	E1001-77 12 JAN 77	SEC CLASS: 07 MSN:	1P ACCN: S079698
	AIRCRAFT: FORGER A YAK-36		UR	
	WAC NO :	BE/OBJ NO: [REDACTED]	NPIC NO :	25X1
	IDHS CODE:	EPF CAT : 05A	COMIREX NO:	
AF	ENDR	E1002-77 14 JAN 77	SEC CLASS: 05 MSN:	1P ACCN: S079699
	AIRCRAFT: FOXBAT A MIG-25		UR	
	WAC NO :	BE/OBJ NO: [REDACTED]	NPIC NO :	25X1
	IDHS CODE:	EPF CAT : 05D	COMIREX NO:	
AF	ENDR	E1003-77 14 JAN 77	SEC CLASS: 05 MSN:	1P ACCN: S079700
	AIRCRAFT: FOXBAT A MIG-25		UR	
	WAC NO :	BE/OBJ NO: [REDACTED]	NPIC NO :	25X1
	IDHS CODE:	EPF CAT : 05D	COMIREX NO:	
AF	ENDR	E1002-76 10 NOV 76	SEC CLASS: 04 MSN:	1P ACCN: S079701
	AIRCRAFT: FOXBAT A MIG-25		UR	
	WAC NO :	BE/OBJ NO: [REDACTED]	NPIC NO :	25X1
	IDHS CODE:	EPF CAT : 05D	COMIREX NO:	
AF	ENDR	E6520-76 15 OCT 76 [REDACTED]	SEC CLASS: 13 MSN:	1P ACCN: S0797025X1
	RAMENSKOYE AEROHYDRODYNAMIC INSTITUTE CENTRAL	UR	553549N 0380607E	
	WAC NO : 0167	BE/OBJ NO: [REDACTED]	NPIC NO : - 50-A	25X1
	IDHS CODE: [REDACTED]	EPF CAT : 05B	COMIREX NO: [REDACTED]	25X1
NPIC	MEMO	[REDACTED] 31 MAR 77 [REDACTED]	SEC CLASS: 14B MSN: [REDACTED]	2P ACCN: S0797025X1
	LOZHKI RADIO COMMUNICATIONS TRANSMITTER CPLX		UR	
	WAC NO : 0154	BE/OBJ NO: [REDACTED]	NPIC NO : - 57-B	25X1
	IDHS CODE: [REDACTED]	EPF CAT : 25D	COMIREX NO: [REDACTED]	25X1
NPIC	MEMO	[REDACTED] 31 MAR 77 [REDACTED]	SEC CLASS: 14B MSN: [REDACTED]	2P ACCN: S0797025X1

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

PODOLSK DF FACILITY PROB
WAC NO : 0167 BE/OBJ NO: [] UR 551800N 0373500E
IDHS CODE: [] EPF CAT : 25A NPIC NO : - 70-C1
COMIREX NO: []

25X1
25X1
25X1

THE PODOLSK PROBABLE DF FACILITY WAS OBSERVED TO DETERMINE IF THERE HAS BEEN ANY CHANGES TO THE ANTENNAS. NO CHANGES WERE OBSERVED SINCE AUGUST 1971.*

NPIC MEMO [] 31 MAR 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S079705 25X1

PUCHKOVO NAVAL RADIO COMMO RCVR STA DF SUPT
WAC NO : 0167 BE/OBJ NO: [] UR 552904N 0371415E
IDHS CODE: [] EPF CAT : 251 NPIC NO : - 46-08
COMIREX NO: []

25X1
25X1

NPIC MEMO [] 01 APR 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S079706 25X1

VEROLANTSY RADIO COMMO RECEIVER STA KRUG SUPT
WAC NO : 0153 BE/OBJ NO: [] UR 593351N 0295237E
IDHS CODE: [] EPF CAT : 25D NPIC NO : - 102-P1
COMIREX NO: []

25X1
25X1

VEROLANTSY RADIO COMMUNICATIONS RECEIVER STATION KRUG SUPPORT WAS REVIEWED TO DETERMINE IF THERE HAS BEEN ANY CHANGES TO THE ANTENNAS. SINCE MARCH 1972 ALL OF THE ANTENNAS HAVE BEEN DISMANTLED AND NEW ANTENNAS, WITH DIFFERENT ORIENTATIONS AND A NEW CONTROL BUILDING HAVE BEEN CONSTRUCTED.*

DIA IIM 582-52596-77 APR 77 [] SEC CLASS: 14B MSN: [] 12P ACCN: S079707 25X1

SULINA PORT FACILITIES
WAC NO : 0250 BE/OBJ NO: [] RO 450922N 0293910E
IDHS CODE: [] EPF CAT : 751 NPIC NO :
COMIREX NO:

25X1
25X1

DIA IIM 583-52610-77 04 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079708 25X1

ILIYSK AIRFIELD SOUTH 4-BAY BUILDINGS U/C
WAC NO : 0329 BE/OBJ NO: [] UR 434346N 0770712E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 11-A
COMIREX NO: []

25X1
25X1

DIA IIM 583-52611-77 04 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079709 25X1

TALDY KURGAN AIRFIELD NE DRIVE-IN BLDGS 4-BAY
WAC NO : 0244 BE/OBJ NO: [] UR 450710N 0782720E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 9-F
COMIREX NO: []

25X1
25X1

DIA IIM 583-52650-77 04 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079710 25X1

1563
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

BYD60SZCZ AIRFIELD AIR O/B
WAC NO : 0169 BE/OBJ NO: NPIC NO : - 20-A
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1
25X1

DIA IIM 5B2-52585-77 APR 77 SEC CLASS: 14B MSN: 13P ACCN: S07971225X1

TULCEA PORT FACILITIES
WAC NO : 0250 BE/OBJ NO: RO 451108N 0284720E
IDHS CODE: EPF CAT : 751 NPIC NO : - 75-B
COMIREX NO:

25X1
25X1

DIA BIIR RDA05-0001-77 MAR 77 SEC CLASS: 14B MSN: 15P ACCN: S07971325X1

SESHCHA AIRFIELD
WAC NO : 0167 BE/OBJ NO: UR 534254N 0332041E
IDHS CODE: EPF CAT : 05A NPIC NO : - 75
SESHCHA AIRFIELD GCA SITE
WAC NO : 0167 BE/OBJ NO: UR 534254N 0332041E
IDHS CODE: EPF CAT : 25H COMIREX NO:

25X1
25X1
25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF SESHCHA AIRFIELD AND ASSOCIATED FACILITIES DURING THE PERIOD AUGUST 1970 TO AUGUST 1976. THE AIRFIELD, LOCATED IN CENTRAL-EUROPEAN U.S.S.R., SUPPORTS TRANSPORT AIRCRAFT. SIGNIFICANT CHANGES DURING THE REPORTING PERIOD INCLUDED THE CONSTRUCTION OF LARGE HARDSTANDS, AN AIRCRAFT MAINTENANCE AREA, A CONSTRUCTION SUPPORT AREA, AND A VEHICLE/EQUIPMENT STORAGE AREA, AND RECONSTRUCTION OF THE SOUTH HALF OF THE TAXIWAY SYSTEM. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 2,510M X 80M CONCRETE MAIN RUNWAY, A SOD RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED TOTAL CAPACITY OF 18,895,280 LITERS (4,991,815 U.S. GALLONS), AIRCRAFT MAINTENANCE, ACCOMMODATIONS, STORAGE AREAS, TRANSPORTATION, AND UTILITIES. AOB INCLUDED 17 COCK, 4 CUB, AND 2 CRATE.

25X1

DIA BIIR RDA11-0001-77 MAR 77 SEC CLASS: 14B MSN: 6P ACCN: S0797125X1

1564
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

KOPEYSK SHELL LOADING PLANT 114

WAC NO : 0164 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35G

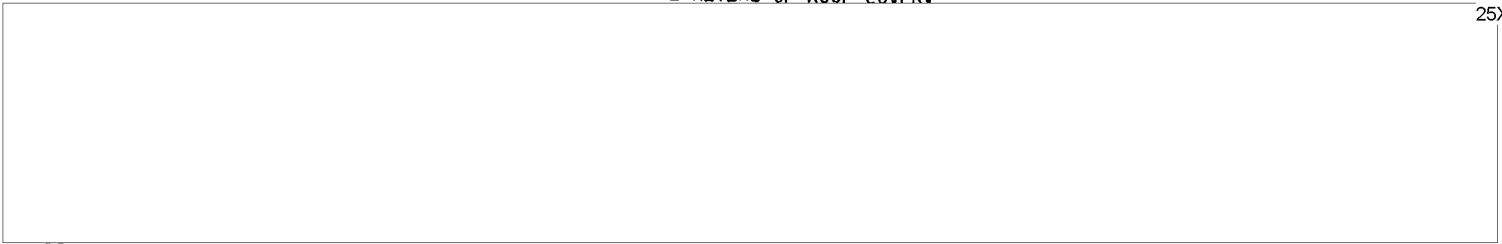
UR 550740N 0613434E
NPIC NO : - 7-A
COMIREX NO:
UR 550850N 0613513E
NPIC NO :
COMIREX NO:

25X1
25X1

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF KOPEYSK SHELL LOADING PLANT 114, U.S.S.R., AND RELATED FACILITIES. THE SHELL-LOADING PLANT IS CAPABLE OF PRODUCING A WIDE VARIETY OF AMMUNITION TYPES, INCLUDING ROUNDS FOR SMALL ARMS AND AUTOMATIC WEAPONS, ARTILLERY AND MORTAR SHELLS, MINES, GRENADES, AND AERIAL BOMBS. IT ENCOMPASSES 103 HECTARES AND CONTAINS 141 BUILDINGS WITH A TOTAL OF 104,829.7 SQUARE METERS OF ROOF COVER. KOPEYSK AMMUNITION DEPOT NNW DA-1, A SEPARATELY SECURED AMMUNITION DEPOT, CONTAINS 30 REVETTED STORAGE MAGAZINES WITH 15,060 SQUARE METERS OF ROOF COVER.

25X1



NPIC PIR PIR006-77 MAR 77 [] SEC CLASS: 14B MSN: 14P ACCN: S079716

25X1

MILITARY, SHIELD 76 TRAINING EXERCISE SUMMARY

WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 35B

PL
NPIC NO :
COMIREX NO:

SHIELD 76 WAS A COMBINED WARSAW PACT EXERCISE HELD IN WESTERN POLAND IN SEPTEMBER 1976. THE EXERCISE WAS ANNOUNCED AS HAVING OCCURRED BETWEEN 9 AND 16 SEPTEMBER WITH A TROOP LEVEL OF 35,000, WHICH IS IN ACCORDANCE WITH THE TERMS OF THE CONFERENCE ON SECURITY AND COOPERATION IN EUROPE AGREEMENT. THIS REPORT SUMMARIZES ACTIVITY SEEN ON PHOTOGRAPHY ON DATES PRIOR TO AND DURING THE EXERCISE. ALTHOUGH NO LARGE-SCALE TACTICAL PLAY WAS OBSERVED, THE ACTIVITY SEEN SHOULD AID IN PHOTOGRAPHICALLY ANALYZING FUTURE PACT EXERCISES AND ACTIVITY THAT ARE POSSIBLE IN PREPARATION FOR WARTIME.

THIS REPORT INCLUDES A LOCATION MAP AND EIGHT ANNOTATED PHOTOGRAPHS. PHOTOGRAPHY FROM [] IN LATE AUGUST AND EARLY SEPTEMBER WAS USED IN THIS REPORT. ALSO, LIMITED COVERAGE OF [] POSTEXERCISE ACTIVITY WAS OBTAINED []

25X1
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ARMY BIR RAC24-5004-77 MAR 77 SEC CLASS: 07 MSN: 13P ACCN: S079717

1565
TOP SECRET CHESS RUFF



25X1



TOP SECRET CHESS RUFF



25X1

AIRCRAFT: HIND D MI-24
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 05D

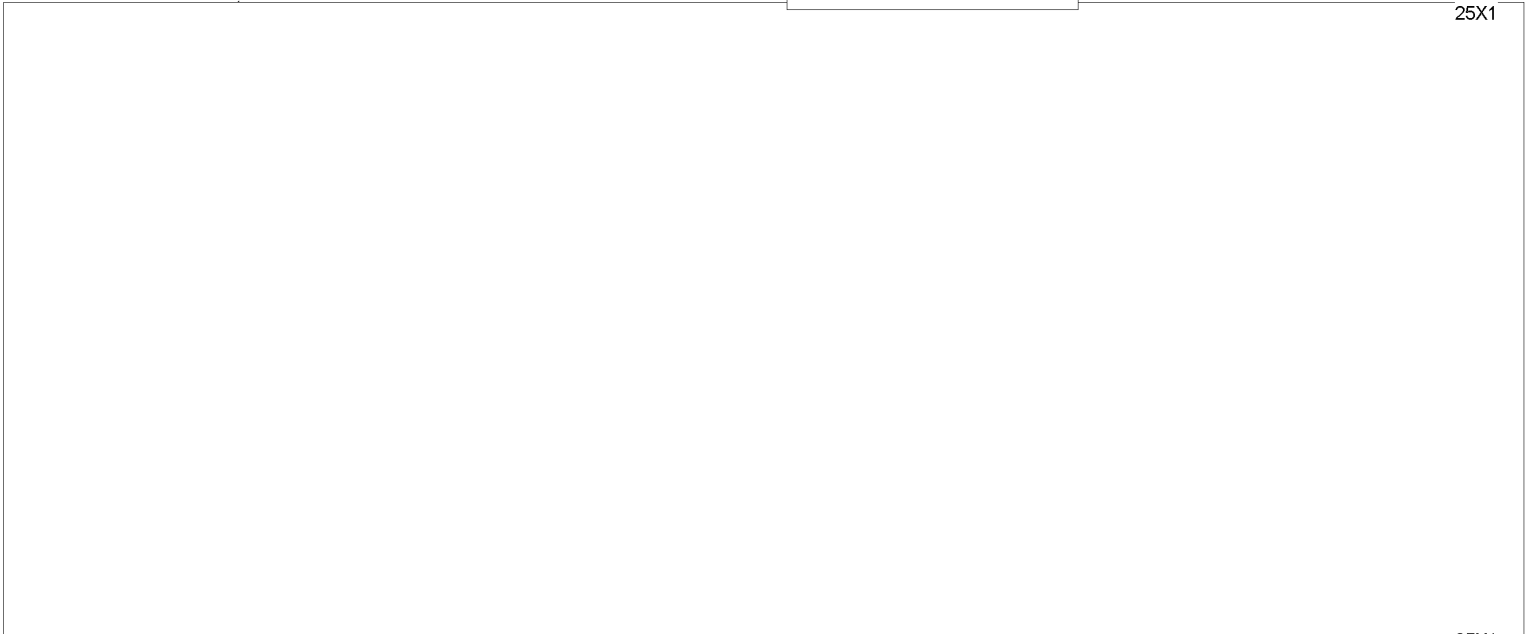
UR
NPIC NO :
COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION REPORT (BIIR) UPDATES THE SECTION OF BIIR, RAC-24/0004/76, 'MI-24 HIND HELICOPTER,' JUN 76, THAT TREATS THE TWIN-CANOPY MODIFIED MI-24 HIND. THE REPORT PROVIDES AN ORIGINAL DESCRIPTION OF THE MI-24 HIND D AND ADDITIONAL INFORMATION OBTAINED SINCE THAT DATE. ALL INTELLIGENCE IS BASED ON INFORMATION DERIVED FROM SELECTED GROUND IMAGERY AND INTELLIGENCE REPORTS. INCLUDED IN THIS REPORT ARE 17 ANNOTATED PHOTOGRAPHS, A SCALE LINE DRAWING, A PHYSICAL DESCRIPTION, AND A SOURCE-MATERIAL REFERENCE SECTION. INFORMATION IS CURRENT

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1566

TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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CIA INFR TSD054-77 10 MAR 77 SEC CLASS: 05 MSN: 3P ACCN: S079756

PYRY AIR FORCE COMMAND CENTER POSS
WAC NO : 0168 BE/OBJ NO: PL 5208 N 02101 E
IDHS CODE: [] EPF CAT : 25H NPIC NO :
COMIREX NO:

25X1

A POSSIBLE POLISH AIR FORCE COMMAND CENTER HAS BEEN IDENTIFIED 2 KILOMETERS SOUTHEAST OF PYRY.*

CIA INFR LFD056-77 07 FEB 77 SEC CLASS: 05 MSN: 11P ACCN: S079757

MILITARY INFANTRY BATTALIONS SINAI ARMS ZONE EG
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS MEMORANDUM IDENTIFIES 16 INFANTRY BATTALIONS IN THE EGYPTIAN LIMITED ARMS ZONE.*

CIA INFR LFD032-77 09 FEB 77 [] SEC CLASS: 13 MSN: 6P ACCN: S079758 25X1

OMSK TANK PLANT VOROSHILOV 174 T-55/72 CONV UR 545556N 0732329E
WAC NO : 0163 BE/OBJ NO: [] NPIC NO : - 5-C
IDHS CODE: [] EPF CAT : 35G COMIREX NO: []

25X1

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THIS IS THE SECOND OF A TWO PART STUDY ON OMSK TANK PLANT VOROSHILOV 174 [] THE FIRST
STUDY [] DISCUSSED THE PRODUCTION RATES OF T-55 TANKS AND MTU T-55 TANK-LAUNCHED ASSAULT
BRIDGES PRODUCED AT OMSK PLANT 174. IT ALSO DESCRIBED THE METHODOLOGY BY WHICH THESE RATES WERE DERIVED.
THIS STUDY DISCUSSES THE PROBABLE FUNCTION OF A PRODUCTION AREA CURRENTLY UNDER CONSTRUCTION AT OMSK PLANT
174 AND THE MAXIMUM ANNUAL PRODUCTION CAPACITY OF THE PLANT.

25X1

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CIA INFR LFD109-77 11 MAR 77 [] SEC CLASS: 13 MSN: 5P ACCN: S079759 25X1

MILITARY, 23RD ARMY SHENYANG MILITARY REGION CH
WAC NO : BE/OBJ NO: NPIC NO :

1579

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT IS AN OIA ANALYSIS OF THE 23RD ARMY IN SHEN-YANG MILITARY REGION. IT INCLUDES A SUMMARY OF THE INSTALLATIONS AND UNITS WHICH MAKE UP THE ARMY AND OIA INSTALLATION BRIEFS FOR EACH OF THESE INSTALLATIONS.

CIA INFR LFD066-77 23 FEB 77 [redacted] SEC CLASS: 13 MSN: 5P ACCN: S0797625X1
HAERHPIN TANK PLANT 674 CH 454639N 1264255E
WAC NO : 0283 BE/OBJ NO: [redacted] NPIC NO : 42-H2
IDHS CODE: [redacted] EPF CAT : 35G COMIREX NO: [redacted]

25X1
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THIS MEMORANDUM IS A DETAILED STUDY OF THE HA-ERH-PIN TANK MANUFACTURING PLANT 674 USING ALL AVAILABLE PHOTOGRAPHY AND COLLATERAL INFORMATION. WE ESTIMATE THAT HA-ERH-PIN PLANT 674 IS CURRENTLY PRODUCING APPROXIMATELY 25 TYPE-62 TANKS PER YEAR AND HAS A THEORETICAL MAXIMUM PRODUCTION CAPACITY OF OVER 2,000 TYPE-62 TANKS PER YEAR.

CIA INFR LFD068-77 15 FEB 77 [redacted] SEC CLASS: 24 MSN: 3P ACCN: S0797625X1
MILITARY, INFANTRY DIVISION ARTY TO+E CHANGE CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

ARTILLERY REGIMENTS SEEN ON SEPTEMBER AND OCTOBER 1976 SATELLITE PHOTOGRAPHY INDICATE A PROBABLE TO+E CHANGE AFFECTING INFANTRY DIVISIONS. MOST OF THE CHANGES WERE SEEN IN THE PEKING MILITARY REGION, ALTHOUGH THERE ARE A FEW EXAMPLES OF SIMILAR CHANGES IN FOUR OTHER MILITARY REGIONS-SHENYANG, LANCHOU, WUHAN, AND FUCHOU.*

CIA INFR LFD076-77 01 MAR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 5P ACCN: S0797625X1
MILITARY, RESTRICTED AREAS ACTIVITY YO
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1

THIS MEMORANDUM LISTS 27 RESTRICTED AREAS IN YUGOSLAVIA. [redacted] A BRIEF DESCRIPTION OF EACH AREA IS GIVEN.* [redacted]

25X1

CIA INFR TSD005-77 22 FEB 77 [redacted] SEC CLASS: 13 MSN: [redacted] 15P ACCN: S0797625X1
SHIPS, Y CLASS SSBN REACTOR CMPNTS/STRUCTURES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

25X1

1580
TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

25X1
25X1

SHIPS, SIBIR CL AGBN REACTOR CMPNTS/STRUCTURE	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75D
NUCLEAR, MARINE REACTOR COMPONENTS/STRUCTURES	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 55E
	NPIC NO :
	COMIREX NO:

THREE COMPONENTS BELIEVED TO BE PARTS OF MARINE REACTOR PLANTS HAVE BEEN IDENTIFIED FROM PHOTOGRAPHY. TWO OF THESE ARE ASSOCIATED WITH THE Y CLASS NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINES (SSBNS) AND ONE WITH THE SIBIR NUCLEAR-POWERED ICEBREAKER (AGBN). TWO MORE POSSIBLE MARINE REACTOR COMPONENTS HAVE BEEN OBSERVED SINCE OCTOBER 1973 AT SEVERODVINSK SHIPYARD 402, BUT THEY HAVE NOT BEEN RELATED TO ANY PARTICULAR CLASS OF SUBMARINE. THESE FIVE COMPONENTS ARE THOUGHT TO BE PARTS OF REACTOR PLANTS BECAUSE THE ARRANGEMENT OF OPENINGS IN THEM RESEMBLES THE ACTUAL ARRANGEMENT OF THE REACTOR PLANT COMPONENTS ON THE NUCLEAR ICEBREAKERS LENIN AND ARKTIKA. (INFORMATION ON THE REACTORS OF THESE SOVIET ICEBREAKERS COMES FROM CLANDESTINE PHOTOGRAPHY AND OPEN SOURCE LITERATURE.) ADDITIONALLY, THESE COMPONENTS HAVE ONLY BEEN SEEN IN SHIPYARDS INVOLVED WITH THE CONSTRUCTION OR OVERHAULING OF NUCLEAR-POWERED VESSELS. NO INTEGRAL REACTOR PLANT COMPONENTS SPECIFICALLY RELATED TO H, E, N AND D CLASSES OF SUBMARINES HAVE BEEN IDENTIFIED ON PHOTOGRAPHY. ONLY WORK STRUCTURES RELATED TO THE OVERHAUL AND REFUELING OF THESE AND Y CLASS SUBMARINES HAVE BEEN ANALYZED. AS NO D CLASS SUBMARINE HAS YET BEEN OVERHAULED OR REFUELED, LITTLE MENTION IS MADE OF D CLASS REACTORS IN THIS MEMORANDUM.

CIA INFR TSD029-77 02 MAR 77 [] SEC CLASS: 13 MSN: 2P ACCN: S079764 25X1

SHIPS, KERCH C SIGHTING CHRONO/DISPLACEMENT	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75G
	NPIC NO :
	COMIREX NO:

CIA INFR TSD032-77 16 FEB 77 [] SEC CLASS: 13 MSN: 2P ACCN: S079765 25X1

SEVERODVINSK SHIPYARD YAGRY NUC SUB RPR HALLS	UR	643514N 0394907E
WAC NO : 0092	BE/OBJ NO:	NPIC NO : - 7-K
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []

CIA INFR TSD035-77 25 FEB 77 [] SEC CLASS: 14 MSN: 7P ACCN: S079766 25X1

SHIPS, KIEV CLASS CVSG PUNCH BOWL RADOMES	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75D
ELECTRONICS, PUNCH BOWL RADOME RORSAT ASSOC	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25I
ELECTRONICS, PERT SPRING RADOME NAVSAT ASSOC	UR
WAC NO :	BE/OBJ NO:
	NPIC NO :
	COMIREX NO:

1581
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

IDHS CODE:	EPF CAT : 251	COMIREX NO:
SHIPS, SVERDLOV CLASS CLC PERT SPRING RADOME	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
ELECTRONICS, PALM FROND RADAR KRESTA 1 CL MTD	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 251	COMIREX NO:
SHIPS, KRESTA-1 CLASS CLGM PALM FROND RADAR	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:

25X1

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25X1

TWO LARGE DOMES, DESIGNATED PUNCH BOWL ARE MOUNTED ON THE ISLAND SUPERSTRUCTURE OF THE SOVIET AIRCRAFT CARRIER KIEV. THESE DOMES PROBABLY HOUSE ANTENNAS FOR RECEIVING DATA FROM RADAR OCEAN RECONNAISSANCE SATELLITES (ROKSAT). THEY ARE VERY SIMILAR TO SINGLE DOMES WHICH ARE ASSESSED AS BEING RORSAT RECEIVERS ON FIVE E-II CLASS, ONE J CLASS AND THE 402K SUBMARINES. THE ONLY OTHER SATELLITE RECEIVER IDENTIFIED ON THE KIEV IS PERT SPRING, WHICH IS ASSOCIATED WITH NAVIGATION SATELLITES (NAVSAT). NO RORSAT AND NAVSAT RECEIVING ANTENNAS WERE IDENTIFIED ON THE FOUR KYNDA AND FOUR KRESTA-I CLASS CGS. THE ONLY SATELLITE RECEIVERS ON THE TWO SVERDLOV CLASS COMMAND CRUISERS ARE THE NAVSAT ASSOCIATED PERT SPRINGS.

CIA INFR MSD014-77 18 FEB 77 [] SEC CLASS: 13 MSN: [] 8P ACCN: S079767 25X1

CHIANGTZUPI SSM SITE	TW 220840N.1205312E
WAC NO : 0613	BE/OBJ NO: [] NPIC NO : - 2
IDHS CODE: []	EPF CAT : 40 COMIREX NO: []

25X1

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TAIWAN'S FIRST MISSILE RANGE WAS RECENTLY IDENTIFIED ON THE SOUTHEAST COAST OF TAIWAN NEAR CHIANG-TZU-PI. THIS MEMORANDUM PROVIDES A BASIC DESCRIPTION OF THE RANGE USING THE LATEST AND BEST PHOTOGRAPHY AVAILABLE [] AN ANNOTATED PHOTOGRAPH OF THE FACILITY, A LISTING OF THE BUILDINGS WITHIN THE FACILITY, AND A PHOTOGRAPH OF THE LAUNCH AREA ARE INCLUDED.

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THE RANGE IS UNDER THE DIRECTION OF THE CHUNG-SHAN INSTITUTE OF SCIENCE AND TECHNOLOGY (CIST) IN TAIPEI. IT WAS NEARLY COMPLETE WHEN FIRST SEEN ON SATELLITE PHOTOGRAPHY [] THE RANGE CONTAINS A LAUNCH AREA, INSTRUMENTATION FACILITIES, AN EXPLOSIVE STORAGE AREA, AN ADMINISTRATIVE/HOUSING AREA, A HELIPORT, AND SEVERAL SUPPORT BUILDINGS.

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CIA INFR LFD012-77 22 FEB 77 [] SEC CLASS: 24 MSN: [] 4P ACCN: S079768 25X1

MILITARY, 21ST ARMY LANCHOU MILITARY REGION	CH
WAC NO :	BE/OBJ NO: [] NPIC NO :
IDHS CODE:	EPF CAT : 35 COMIREX NO:

THIS REPORT PRESENTS AN ANALYSIS OF THE 21ST ARMY IN THE LAN-CHOU MILITARY REGION. A TABLE OF UNITS SUBORDINATE TO THE 21ST ARMY IS INCLUDED.*

1582
TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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ZSAI

CIA INFR MSD010-77 10 FEB 77 [] SEC CLASS: 13 MSN: 5P ACCN: S079769 25X1

MISSILES, SA-8 UR 25X1
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO:
 MISSILES, SA-8 TRANSPORTER-ERECTOR-LAUNCHER UR 25X1
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO:

THE SA-8 IS A HIGHLY MOBILE, TACTICAL, SURFACE-TO-AIR MISSILE (SAM) SYSTEM. TWO ESSENTIAL ELEMENTS OF THIS SYSTEM ARE THE SA-8 (GECKO) MISSILE AND ITS TRANSPORTER-ERECTOR-LAUNCHER (TEL). THE GECKO MISSILE IS A RELATIVELY SMALL, COMMAND-GUIDED MISSILE WHICH WILL OPERATE AT LOW-TO MEDIUM ALTITUDES. THE TEL IS AMPHIBIOUS AND HAS FOUR MISSILE LAUNCH RAILS, AN ACQUISITION RADAR, AND A FIRE CONTROL UNIT MOUNTED ON IT. BECAUSE EACH VEHICLE IS A COMPLETE FIRING UNIT, THIS SYSTEM REPRESENTS A SIGNIFICANT DESIGN IMPROVEMENT OVER THE SA-4 AND SA-6 SAM SYSTEMS. THIS UNIT IS MORE EFFICIENT AND HAS IMPROVED SURVIVABILITY. A MORE DETAILED DESCRIPTION OF THE SYSTEM INCLUDING A LINE DRAWING OF THE SA-8 (GECKO) MISSILE IS PRESENTED.

CIA INFR MSD025-77 14 FEB 77 [] SEC CLASS: 13 MSN: 22P ACCN: S079770 25X1

MISSILES, SA-2 SITES STATUS UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO:

SINCE 1970 THE SOVIETS HAVE DEACTIVATED 250 SA-2 SITES THUS REDUCING THE FORCE FROM A HIGH FIGURE OF ABOUT 800 ACTIVE SITES TO THE PRESENT FIGURE OF 550. A PHOTOGRAPHIC STUDY OF ABOUT 10 PERCENT OF THE SOVIET DEPLOYED ACTIVE AND INACTIVE SA-2 SITES REVEALS THAT THERE IS GENERALLY MORE THAN ENOUGH EXTRA EQUIPMENT AVAILABLE LOCALLY TO REACTIVATE THE UNOCCUPIED SITES. THE STUDY DETERMINED THAT IN NINE OF THE ELEVEN AREAS STUDIED THERE WAS MORE THAN ENOUGH SA-2 EQUIPMENT IN THE LOCAL AREA TO EQUIP THE UNOCCUPIED SITES IN THAT AREA. IN ONE AREA ENOUGH EQUIPMENT FOR ALL BUT ONE UNOCCUPIED SITE WAS FOUND AND IN ONLY ONE AREA WAS THERE NO EXTRA EQUIPMENT. THIS DISCOVERY WOULD APPEAR TO HAVE A BEARING ON SEVERAL INTELLIGENCE ISSUES. IT APPEARS THAT IN A TIME OF RISING TENSION THESE SITES COULD BE READILY ACTIVATED AND INCREASE THE DENSITY OF THE SOVIET AIR DEFENSE NETWORK. THE POSSIBLE USE OF LOCAL RESERVISTS TO MAN THESE SITES WOULD HAVE A BEARING ON UNDERSTANDING THE SIZE AND STRUCTURE OF RESERVE MILITARY UNITS IN THE USSR, AND IT WOULD ALSO APPEAR TO BE OF SOME VALUE IN ASSESSING CONSTRAINTS--MANPOWER OR FUNDS--BEING FELT BY THE SOVIET MILITARY AND HOW THEY ARE DEALING WITH THE PROBLEM.

ELEVEN TABLES LIST THE SPECIFIC SAM FACILITIES IN EACH OF THE AREAS STUDIED FOR THIS REPORT. EACH TABLE GIVES THE SITE DESIGNATION, ITS COORDINATES, THE STATUS OF EACH FACILITY, AND THE EXTRA EQUIPMENT SEEN OR OTHER SIGNIFICANT ACTIVITY THAT MAY BE PRESENT.

CIA INFR MSD026-77 11 FEB 77 [] SEC CLASS: 13 MSN: 2P ACCN: S079771 25X1

NOVOSIBIRSK ICBM SILO COMPONENTS PLANT SEARCH UR 550630N 0825910E

1583
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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WAC NO : 0162 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

CIA INFR MSD032-77 09 MAR 77 SEC CLASS: 13 MSN: 37P

ACCN: S0797725X1

BRONNITSY MILITARY VEHICLE TEST FACIL ACT REV	UR 552651N 0381427E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 121-X3
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []
BRYANSK ROAD MACH/GM SUPT EQUIP PLT 1 ACT REV	UR 531449N 0342254E	25X1
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 8-M
IDHS CODE: []	EPF CAT : 85A	COMIREX NO: []
BRYANSK ROAD MACH/GM SUPT EQUIP PLT 1 ACT REV	UR 531449N 0342254E	25X1
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 8-M
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
BRYANSK GUIDED MSL SUPT EQUIP PLT 2 ACT REV	UR 531710N 0342345E	25X1
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 8-K2
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
BRYANSK TRACTOR/RR EQUIP PLT BEZHITS ACT REV	UR 531919N 0341543E	25X1
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 8-C1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
ZHDANOV STEEL + RR TANK CAR PLT ILICH ACT REV	UR 470912N 0373331E	25X1
WAC NO : 0249	BE/OBJ NO: []	NPIC NO : - 49-F
IDHS CODE: []	EPF CAT : 85B	COMIREX NO: []
ZHDANOV STEEL + RR TANK CAR PLT ILICH ACT REV	UR 470912N 0373331E	25X1
WAC NO : 0249	BE/OBJ NO: []	NPIC NO : - 49-F
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
VOLGOGRAD MILITARY TEST FACILITY 3 ACT REVIEW	UR 490006N 0443435E	25X1
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 16-S3
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []
VOLGOGRAD MILITARY TEST FACILITY 1 ACT REVIEW	UR 485510N 0443119E	25X1
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 16-N1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []
UZLOVAYA MINING MACHINERY PLANT ACTIVITY REV	UR 535758N 0381037E	25X1
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 133-A2
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
VOLGOGRAD STEEL + MACHINE PLANT 221 ACT REV	UR 484632N 0443449E	25X1
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 16-D
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
SVERDLOVSK GUIDED MISSILE PROD PLT 8 ACT REV	UR 565213N 0603707E	25X1
WAC NO : 0156	BE/OBJ NO: []	NPIC NO : - 26-C
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []
PERM ARMAMENT + GM SUPT EQUIP PLT 172 ACT REV	UR 580218N 0561822E	25X1
WAC NO : 0156	BE/OBJ NO: []	NPIC NO : - 16-C

1584

TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 PERM ARMAMENT + GM SUPT EQUIP PLT 172 ACT REV UR 580218N 0561822E
 WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 16-C
 IDHS CODE: [] EPF CAT : 35G COMIREX NO: []
 OREL ROAD MACHINERY + MISSILE PLANT ACT REV UR 525515N 0360119E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 65-B3
 IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
 OREL ROAD MACHINERY + MISSILE PLANT ACT REV UR 525515N 0360119E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 65-B3
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 MINSK MOTOR VEH + GM SUPT EQUIP PLANT ACT REV UR 535131N 0273931E
 WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 46-Z1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 MINSK MOTOR VEH + GM SUPT EQUIP PLANT ACT REV UR 535131N 0273931E
 WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 46-Z1
 IDHS CODE: [] EPF CAT : 85A COMIREX NO: []
 KRASNOYARSK STEEL/HEAVY EQUIP/MSL SUPT PLANT UR 555946N 0925851E
 WAC NO : 0161 BE/OBJ NO: [] NPIC NO : - 35-E
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 KRASNOYARSK STEEL/HEAVY EQUIP/MSL SUPT PLANT UR 555946N 0925851E
 WAC NO : 0161 BE/OBJ NO: [] NPIC NO : - 35-E
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: []
 KRAMATORSK HEAVY MACHINE PLANT ACTIVITY REV UR 484333N 0373259E
 WAC NO : 0234 BE/OBJ NO: [] NPIC NO : - 65-A3
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: []
 KOSTROMA CONSTRUCTION/GM SUPT PLANT ACT REV UR 574534N 0405333E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 150-A
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
 KOSTROMA CONSTRUCTION/GM SUPT PLANT ACT REV UR 574534N 0405333E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 150-A
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: []
 KALININ RAILROAD LOCO/CAR MFG/RPR PLT ACT REV UR 565205N 0355115E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 20-C4
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: []
 IVANOVO CRANE PLANT ACTIVITY REVIEW UR 565819N 0405715E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 19-N
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: []
 BRYANSK TRACTOR/RR EQUIP PLT BEZHITS ACT REV UR 531919N 0341543E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 8-C1
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: []
 BRYANSK RAILROAD LOCO + STEEL PLANT ACT REV UR 531820N 0341925E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 8-A3
 IDHS CODE: [] EPF CAT : 85B COMIREX NO: []

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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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BRYANSK RAILROAD LOCO + STEEL PLANT ACT REV	UR	531820N 0341925E
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 8-A3
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
DONETSK AGRICULTURAL MACHINE BLDG PLT ACT REV	UR	480305N 0374620E
WAC NO : 0234	BE/OBJ NO: []	NPIC NO : - 41-A4
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
GORKIY ARMAMENTS PLANT NOVOYE SORMOVO ACT REV	UR	561936N 0435326E
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 13-D
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []

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THIS MEMORANDUM IS A SUMMARY OF ACTIVITIES OBSERVED AT SELECTED SOVIET MISSILE GROUND SUPPORT EQUIPMENT PLANTS AND TEST FACILITIES

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CIA INFR MSD035-77 03 MAR 77 [] SEC CLASS: 13 MSN: 5P ACCN: 507977:25X1

KAPUSTIN YAR MTC SAM FIRING RANGE SAM SYS NEW	UR	484828N 0454343E
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 10-A9
IDHS CODE: []	EPF CAT : 40C	COMIREX NO: []

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25X1

COMPONENTS OF A NEW, CANISTER-LAUNCHED, SURFACE-TO-AIR MISSILE (SAM) SYSTEM HAVE BEEN OBSERVED AT THE SAM FIRING RANGE OF THE KAPUSTIN YAR MISSILE TEST CENTER. THIS SAM SYSTEM HAS BEEN UNDER DEVELOPMENT AT COMPLEX G OF THE SARY SHAGAN MISSILE TEST CENTER SINCE 1973. THE APPEARANCE OF THIS SYSTEM AT KAPUSTIN YAR PROBABLY MEANS INITIAL TROOP TRAINING MAY BEGIN SOON AT THIS RANGE.

SEVERAL AREAS OF THE SAM FIRING RANGE WERE EXAMINED TO DETERMINE WHERE THIS TROOP TRAINING MIGHT OCCUR. RECENT MODIFICATIONS AND NEW CONSTRUCTION WERE OBSERVED AT TWO SITES. THESE WERE THE SAM R+D TRAINING FACILITY B--A FORMER SA-2 TRAINING SITE--AND AT LAUNCH SITE D IN THE SA-3 LAUNCH AREA. THESE TWO SITES WILL APPEAR ALMOST IDENTICAL IN BOTH SIZE AND CONFIGURATION WHEN COMPLETED AND ARE THE MOST LIKELY AREAS FOR TROOP TRAINING OF THE NEW MISSILE SYSTEM. THIS FURTHER SUGGESTS THAT BOTH SA-2 AND SA-3 DEPLOYED SITES MIGHT BE CANDIDATE SITES FOR THE DEPLOYMENT OF THIS NEW SYSTEM.

CIA INFR MSD037-77 10 MAR 77 [] SEC CLASS: 24 MSN: 6P ACCN: 507977:25X1

PLESETSK MTC SPACE SITE 27	UR	625423N 0404715E
WAC NO : 0102	BE/OBJ NO: []	NPIC NO : - 27-X
IDHS CODE: []	EPF CAT : 40H	COMIREX NO: []

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25X1

THIS MEMORANDUM PRESENTS AN ANALYSIS OF ACTIVITY SEEN RECENTLY AT LAUNCH SITE 27 AT THE PLESETSK MISSILE AND SPACE CENTER, USSR. THIS ANALYSIS INDICATES THAT THE SOUTH LAUNCH PAD AT SITE 27 IS NEARING OPERATIONAL COMPLETION AND MAY BE CAPABLE OF SUPPORTING LAUNCHES IN THE NEAR FUTURE. CONSTRUCTION OF THE NORTH LAUNCH PAD IS PROGRESSING MORE SLOWLY, AND, BASED ON THE CURRENT RATE OF CONSTRUCTION, IT WILL NOT BE COMPLETED AS QUICKLY AS THE SOUTH LAUNCH PAD.

A DIMENSIONAL AND CONFIGURATIONAL COMPARISON OF THE LAUNCH STANDS AT THE SITE WITH THE BASE OF THE SS-9

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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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ICBM INDICATES THAT THESE LAUNCH STANDS WERE SPECIFICALLY DESIGNED TO SUPPORT THE SS-9. THIS CONFIRMS AN EARLIER ANALYSIS THAT LAUNCH SITE 27 WAS BEING BUILT TO SUPPORT LAUNCHES OF THE SL-11--A SPACE LAUNCH VEHICLE DEVELOPED FROM AND UTILIZING THE TWO STAGES OF THE SS-9.

CIA INFR MSD036-77 11 MAR 77 [] SEC CLASS: 13 MSN: [] 13P

ACCN: S079775 25X1

SARY SHAGAN MTC	WAC NO : 0245	BE/OBJ NO: []	UR 460147N 0724009E
IDHS CODE: []	EPF CAT : 40E	NPIC NO : - 2	COMIREX NO: []
EMBA MTC	WAC NO : 0236	BE/OBJ NO: []	UR 483800N 0580300E
IDHS CODE: []	EPF CAT : 40E	NPIC NO : - 22	COMIREX NO: []
KAPUSTIN YAR MTC SAM FIRING RANGE	WAC NO : 0235	BE/OBJ NO: []	UR 484828N 0454343E
IDHS CODE: []	EPF CAT : 40C	NPIC NO : - 10-A9	COMIREX NO: []
MISSILES, ABM FACILITIES ACTIVITY REVIEW	WAC NO : []	BE/OBJ NO: []	UR []
IDHS CODE: []	EPF CAT : 40D	NPIC NO : []	COMIREX NO: []

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25X1

THIS REPORT GIVES INFORMATION ON ABM AND SELECTED DEFENSIVE MISSILE FACILITIES [] IT INCLUDES ACTIVITY SUMMARIES FOR THE SARY SHAGAN MISSILE TEST CENTER, THE SAM FIRING RANGE AT KAPUSTIN YAR, THE EMBA MISSILE TEST CENTER, THE DEPLOYED MOSCOW ABM FACILITIES AND THE UST KAMCHATSK RADAR FACILITY.*

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CIA INFR MSD038-77 09 MAR 77 [] SEC CLASS: 13 MSN: [] 4P

ACCN: S079776 25X1

SARY SHAGAN MTC COMPLEX B ABM SILOS POSS U/C	WAC NO : 0245	BE/OBJ NO: []	UR 460106N 0722804E
IDHS CODE: []	EPF CAT : 40D	NPIC NO : - 50-B	COMIREX NO: []
SARY SHAGAN MTC COMPLEX F ABM SILOS POSS U/C	WAC NO : 0245	BE/OBJ NO: []	UR 462629N 0725108E
IDHS CODE: []	EPF CAT : 40D	NPIC NO : - 49-B6	COMIREX NO: []

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FOUR PROBABLE ABM LAUNCH SILOS ARE UNDER CONSTRUCTION AT SARY SHAGAN MISSILE TEST CENTER (SSMTC). TWO ARE AT LAUNCH COMPLEX B AND TWO AT LAUNCH COMPLEX F. THESE SILOS ARE BEING BUILT WITH TECHNIQUES SIMILAR TO THOSE USED IN THE CONSTRUCTION OF THE NEW (FOURTH GENERATION) ICBM SILOS (TYPES IIIF AND IIIG). THESE SILOS AT SSMTC ARE, [] IN AN EARLY-TO-MID-STAGE OF CONSTRUCTION. IF CONSTRUCTION CONTINUES AT A STEADY PACE THEY SHOULD BE COMPLETE AROUND SEPTEMBER 1977. A PRELIMINARY ESTIMATE OF THE SIZE OF THESE SILOS WAS MADE FROM THE COMPONENTS OBSERVED TO DATE AND BASED ON THE GENERAL TECHNIQUES USED TO CONSTRUCT THE NEW ICBM SILOS. THE EFFECTIVE OR USABLE DEPTH OF THESE SILOS SHOULD BE ABOUT 25 METERS AND THE EXIT DIAMETER SHOULD BE [] ALTHOUGH THIS SIZE ESTIMATE IS PRELIMINARY, IT IS CLOSE TO THE SIZE OF THE TYPE III-H ICBM SILO FOR THE SS-17 ICBM.

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1587
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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CIA INFR MSD040-77 11 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0797725X1

NEIMENKUTZUCHIHCHU IR SOURCES SEARCH CH 3830 N 10216 E
 WAC NO : 0383 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 65 COMIREX NO:

CIA INFR MSD041-77 14 MAR 77 [] SEC CLASS: 24 MSN: [] 3P ACCN: S0797725X1

LIAOTUNG PANTAO OPTICAL TRACKING EQUIP MBL DPL CH 3846 N 12118 E
 WAC NO : 0381 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25C COMIREX NO:

MOBILE OPTICAL TRACKING EQUIPMENT WAS DEPLOYED TO THREE LOCATIONS ON THE SOUTHERN COASTLINE OF THE LIAO-TUNG PENINSULA IN THE FALL OF 1973. THIS EQUIPMENT IS BELIEVED TO SUPPORT EITHER CRUISE MISSILE OR SLBM ACTIVITY IN THE LU-SHUN AREA AND IS NORMALLY STORED AT THE LU-SHUN ARMY BARRACKS.

CIA INFR MSD043-77 14 MAR 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S0797725X1

MISSILES, ICBM TYPE 3D/3H SILO CONVERSION UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40A COMIREX NO:

DETERMINE THE CHANGE IN APRON LEVEL WHEN TYPE 3D SILOS ARE CONVERTED TO TYPE 3H.*

CIA INFR MSD044-77 17 MAR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S0797825X1

YURGA ARMAMENT PLANT 75 MISSILE RELATED PROD UR 554413N 0845447E
 WAC NO : 0161 BE/OBJ NO: NPIC NO : - 17-A
 IDHS CODE: EPF CAT : 35G COMIREX NO: []

YURGA ARMAMENT PLANT 75 MISSILE RELATED PROD UR 554413N 0845447E
 WAC NO : 0161 BE/OBJ NO: NPIC NO : - 17-A
 IDHS CODE: EPF CAT : 40E COMIREX NO: []

A REVIEW OF THE PHOTOGRAPHY OF YURGA ARMAMENT PLANT 75 INDICATES THAT THE PLANT IS ACTIVELY PRODUCING THE FOLLOWING: A COMPONENT OF THE SS-17 ICBM LAUNCH-ASSIST DEVICE (LAD), COMPONENTS OF THE TYPE III-F SILO, AND A COMPONENT ASSOCIATED WITH THE TYPE III-X LAUNCH CONTROL SILO. LARGE EXCAVATORS PROBABLY FOR CIVILIAN USE, ARE ALSO PRODUCED AT THE PLANT. PRODUCTION OF THESE ARTICLES PROBABLY OCCUPIES MOST OF THE PLANT'S FLOORSPACE. THEREFORE, SERIES PRODUCTION OF SLBM, ASW, OR ANY OTHER MISSILE SYSTEM WHICH WOULD REQUIRE A CONSIDERABLE AMOUNT OF FLOOR-SPACE IS CONSIDERED UNLIKELY. THE PHOTOGRAPHY SUPPORTS THIS CONCLUSION AS NO EVIDENCE OF THESE WEAPONS WAS OBSERVED.

CIA INFR MSD046-77 25 MAR 77 [] SEC CLASS: 24 MSN: [] 16P ACCN: S079725X1.1

1588
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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25X1

PLESETSK MTC

WAC NO : 0102
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40E

UR 625746N 0402346E
NPIC NO : - 27
COMIREX NO:

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THIS REPORT SUMMARIZES RANGEHEAD ACTIVITY AT PLESETSK MISSILE AND SPACE CENTER FROM

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CIA INFR ERD041-77 18 MAR 77

SEC CLASS: 13 MSN: 15P

ACCN: S079782

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KRASNOYARSK SYNTHETIC RUBBER PLT CIV DEF BKRS	UR 560100N 0925000E
WAC NO : 0159	NPIC NO :
IDHS CODE:	COMIREX NO:
STERLITAMAK SYNTHETIC RUBBER PLT CIV DEF BKRS	UR 534019N 0555706E
WAC NO : 0165	NPIC NO :
IDHS CODE:	COMIREX NO:
KRASNOYARSK SYNTHETIC RUBBER PLT CIV DEF BKRS	UR 560100N 0925000E
WAC NO : 0159	NPIC NO :
IDHS CODE:	COMIREX NO:
STERLITAMAK SYNTHETIC RUBBER PLT CIV DEF BKRS	UR 534019N 0555706E
WAC NO : 0165	NPIC NO :
IDHS CODE:	COMIREX NO:
VOLGOGRAD SYNTHETIC RUBBER PLANT CIV DEF BKRS	UR 484854N 0445038E
WAC NO : 0235	NPIC NO : - 16-P
IDHS CODE:	COMIREX NO:
VOLGOGRAD SYNTHETIC RUBBER PLANT CIV DEF BKRS	UR 484854N 0445038E
WAC NO : 0235	NPIC NO : - 16-P
IDHS CODE:	COMIREX NO:
VORONEZH SYNTHETIC RUBBER PLANT CIV DEF BKRS	UR 513743N 0391439E
WAC NO : 0234	NPIC NO :
IDHS CODE:	COMIREX NO:
VORONEZH SYNTHETIC RUBBER PLANT CIV DEF BKRS	UR 513743N 0391439E
WAC NO : 0234	NPIC NO :
IDHS CODE:	COMIREX NO:

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THIS REPORT PRESENTS THE RESULTS OF A STUDY OF CIVIL DEFENSE MEASURES AT FOUR SOVIET SYNTHETIC RUBBER PLANTS. THE FOUR PLANTS WERE SELECTED AS A SAMPLING OF THE SYNTHETIC RUBBER INDUSTRY AND ARE WIDELY SPACED GEOGRAPHICALLY.*

CIA INFR ERD052-77 31 MAR 77

SEC CLASS: 13 MSN: 3P

ACCN: S079783

25X1

VEROLANTSY GRAIN STORAGE BUNKERS IDENT

UR 592930N 0294500E

1589
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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WAC NO : 0153	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 80B	COMIREX NO:
SHAPKI GRAIN STORAGE BUNKERS IDENTIFICATION		UR 593545N 0311000E
WAC NO : 0153	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 80B	COMIREX NO:

25X1

CIA INFR TSD041-77 14 MAR 77 [] SEC CLASS: 13 MSN: 5P ACCN: 5079784 25X1

SHIPS, SUBMERSIBLE/UNDERWATER VEHICLE ACT	UR
WAC NO :	NPIC NO :
IDHS CODE:	COMIREX NO:
VLADIVOSTOK SUBMARINE BASE 199D/SUBMERSIBLES	UR 430449N 1315506E
WAC NO : 0291	NPIC NO : - 48-S
IDHS CODE: []	COMIREX NO: []
SEVASTOPOL NAVAL BASE SUBMERSIBLES	UR 443628N 0333147E
WAC NO : 0250	NPIC NO : - 62-J5
IDHS CODE: []	COMIREX NO: []
GELENDZHIC OCEANOLOGY INSTITUTE SUBMERSIBLES	UR 443440N 0375900E
WAC NO : 0249	NPIC NO : - 28-N2
IDHS CODE: []	COMIREX NO: []
GELENDZHIC OCEANOLOGY INSTITUTE SUBMERSIBLES	UR 443440N 0375900E
WAC NO : 0249	NPIC NO : - 28-N2
IDHS CODE: []	COMIREX NO: []
LENINGRAD SHIPYARD SUDOMEKH SUBMERSIBLES SRCH	UR 595542N 0301649E
WAC NO : 0153	NPIC NO : - 36-B
IDHS CODE: []	COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS MEMORANDUM IS PART OF A CONTINUING STUDY OF SELECTED SOVIET SUBMERSIBLES AND RELATED UNDERWATER VEHICLE ACTIVITY AS OBSERVED ON PHOTOGRAPHY. THE TIME PERIOD COVERED IN THIS STUDY []

25X1

25X1

CIA INFR TSD042-77 25 FEB 77 [] SEC CLASS: 14 MSN: 2P ACCN: 507978 25X1

PUSHKIN AIRFIELD CAMEL TU-104 MODIFIED	UR 594106N 0302018E
WAC NO : 0153	NPIC NO : - 58
IDHS CODE: []	COMIREX NO: []
AIRCRAFT, CAMEL TU-104 ENVIRONMENTAL SHELTERS	UR
WAC NO :	NPIC NO :
IDHS CODE:	COMIREX NO:
	EPF CAT : 05D

25X1

25X1

25X1

OBJECTS, MOUNTED AT THE MIDSPAN OF EACH WING ON A CAMEL TU-104 AT PUSHKIN AIRFIELD, ARE PROBABLY ENVIRONMENTAL SHELTERS PLACED OVER THE WINGS TO ALLOW FOR INSPECTION OR MAINTENANCE.*

1590

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CIA INFR TSD043-77 07 MAR 77 [] SEC CLASS: 13 MSN: 4P ACCN: S079786 25X1

SHIPS, KRIVAK CLASS DDGSP GUN NEW ARMED [] UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:
NAVAL, GUN SINGLE-BARREL NEW KRIVAC DDGSP MTD UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75H COMIREX NO:

25X1

IN JULY 1976 THE KRIVAK CLASS DESTROYER REZVYY, PHOTOGRAPHED UNDERWAY IN THE BALTIC SEA, WAS SEEN EQUIPPED WITH TWO LARGE SINGLE BARREL GUNS MOUNTED AFT. THESE GUNS ARE IN THE SAME POSITION AS THE TWO TWIN BARREL 76.2MM GUNS SEEN ON EARLIER KRIVAK DESTROYERS. ANALYSIS INDICATES THAT THE KRIVAK DESTROYERS BUILT AT SHIPYARD STATE 820 IN KALININGRAD SUBSEQUENT TO THE REZVYY WILL ALSO BE EQUIPPED WITH THE NEW GUNS. THESE GUNS ARE UNLIKE ANY KNOWN TO BE CARRIED BY OTHER SOVIET SURFACE COMBATANTS.

CIA INFR TSD046-77 01 MAR 77 [] SEC CLASS: 13 MSN: 1P ACCN: S079787 25X1

SHIPS, KIEV CLASS CVSG WATERLINE BEAM [] UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

25X1

CIA INFR TSD050-77 07 MAR 77 [] SEC CLASS: 13 MSN: 2P ACCN: S079788 25X1

KAPUSTIN YAR MTC INSTR SITES FRAS SUPT SEARCH UR 4841 N 04728 E
WAC NO : 0235 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 25C COMIREX NO:

25X1

CIA INFR TSD058-77 22 MAR 77 [] SEC CLASS: 14B MSN: 9P ACCN: S079789 25X1

SHIPS, D-1 CLASS SSBN SEA WAKE ANALYSIS [] UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

25X1

[] A SOVIET D-I CLASS NUCLEAR POWERED BALLISTIC MISSILE SUBMARINE WAS IMAGED ON SATELLITE PHOTOGRAPHY AS IT APPROACHED THE ENTRANCE TO AVACHINSKAYA GUBA, THE LOCATION OF PETROPAVLOVSK NAVAL BASE. THE SUN ANGLE, THE CAMERA VIEWING ANGLE, AND THE SEA STATE CONDITIONS WERE IDEAL TO CAPTURE DETAILS OF THE TURBULENT AND KELVIN WAKES CREATED BY THE SUBMARINE. THIS MEMORANDUM PRESENTS AN ANALYSIS OF THE WAKES AND SEA STATE CONDITIONS AT THE TIME OF PHOTOGRAPHY AS WELL AS INFORMATION ABOUT D-I CLASS SSBNS.

25X1

1591
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA INFR TSD064-77 30 MAR 77 [REDACTED] SEC CLASS: 13 MSN: 3P ACCN: S0797925X1

DALNYAYA BUKHTA UNDERWATER RESEARCH INST POSS UR 603200N 0271030E
WAC NO : 0103 BE/OBJ NO: NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 75F COMIREX NO:
DALNYAYA BUKHTA UNDERWATER RESEARCH INST POSS UR 603200N 0271030E
WAC NO : 0103 BE/OBJ NO: NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 65A COMIREX NO:

25X1

25X1

THIS REPORT DESCRIBES A SMALL, SECURED FACILITY LOCATED ON BUKHTA DALNYAYA ON THE NORTHERN COAST OF THE GULF OF FINLAND BETWEEN VYBORG (USSR) AND THE FINNISH-SOVIET BORDER. THIS MAY BE AN UNDERWATER RESEARCH INSTITUTE USED AS THE TEST BASE FOR THE OSA 3-600 SUBMERSIBLE; HOWEVER, NO SUBMERSIBLES HAVE BEEN OBSERVED AT THIS FACILITY.*

CIA INFR TSD072-77 30 MAR 77 [REDACTED] SEC CLASS: 14 MSN: 3P ACCN: S0797925X1

MISSILES, SS-N-7/SS-N-9 TAIL SECTION COMP UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 406 COMIREX NO:
MISSILES, SS-N-9/SS-N-7 TAIL SECTION COMP UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 406 COMIREX NO:

25X1

25X1

THIS REPORT COMPARES THE DETAILS OF A RECOVERED MISSILE TAIL SECTION BELIEVED TO BE FROM AN SS-N-7 CRUISE MISSILE WITH TWO SS-N-9 CRUISE MISSILE TAIL SECTIONS SEEN ON PHOTOGRAPHY TO DETERMINE IF THEY ARE THE SAME. THE SS-N-7 IS A SHORT RANGE CRUISE MISSILE THAT IS SUBMERGE LAUNCHED FROM THE CHARLIE CLASS SUBMARINE. A TAIL SECTION OF A MISSILE THOUGHT TO BE AN SS-N-7 WAS RECOVERED FROM THE BARENTS SEA IN 1970 AND ANALYZED UNDER THE PROJECT NAME CLUSTER VIOLET. THE SS-N-9 IS A SURFACE-TO-SURFACE NAVAL CRUISE MISSILE CARRIED BY THE NANUCHKA CLASS GUIDED MISSILE COMBATANT. UNFORTUNATELY THE SS-N-9 HAS ONLY BEEN SEEN TWICE ON PHOTOGRAPHY OF SUFFICIENT QUALITY TO PERMIT BASIC ANALYSIS OF THE AIRFRAME. COMPARISON REVEALS DIFFERENCES WHICH INDICATE THAT THE RECOVERED TAIL SECTION AND THE SS-N-9 TAIL SECTION DO NOT HAVE

1592
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THE SAME CONFIGURATION.

CIA INFR LFD098-77 10 MAR 77 [] SEC CLASS: 13 MSN: 4P ACCN: S079793 25X1

CHUNGCHING ARMORED VEHICLE PLANT 256 CH 293035N 1063052E
WAC NO : 0495 BE/OBJ NO: [] NPIC NO : - 10-J3
IDHS CODE: [] EPF CAT : 35G COMIREX NO: []

25X1
25X1

THIS MEMORANDUM IS A DETAILED STUDY OF THE CHUNG-CHING ARMORED VEHICLE PLANT 256 USING ALL AVAILABLE PHOTOGRAPHY AND COLLATERAL INFORMATION. IT IS NOT POSSIBLE TO DETERMINE THE ANNUAL PRODUCTION RATE OF CHUNG-CHING PLANT 256 AT THIS TIME, BUT IT IS ESTIMATED THAT THE PLANT IS PROBABLY MANUFACTURING AS MANY AS 200 TYPE 59 ARTILLERY TRACTORS AND FROM 25 TO 100 TYPE 60/63 TANKS PER YEAR.

THE CHUNG-CHING ARMORED VEHICLE PLANT 256 IS LOCATED ON THE SOUTHERN OUTSKIRTS OF CHUNG-CHING. THE PLANT IS ONLY ROAD SERVED, BUT RIVER PORT AND RAIL FACILITIES ARE LOCATED APPROXIMATELY 2 KILOMETERS TO THE SOUTHEAST. THE PLANT CURRENTLY MANUFACTURES TYPE 60/63 LIGHT AMPHIBOUS TANKS AND TYPE 59 TRACKED ARTILLERY TRACTORS. THE SIZE AND ACTIVITY LEVELS OBSERVED WITHIN THE PLANT INDICATE THAT IT MAY ALSO BE ENGAGED IN MANUFACTURING CIVILIAN PRODUCTS.

CIA INFR LFD133-77 04 APR 77 [] SEC CLASS: 13 MSN: 6P ACCN: S079794 25X1

MILITARY, MOTORIZED RIFLE DIVISIONS CGF TO+E CZ
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1

THIS REPORT PRESENTS THE INITIAL ANALYSIS IN A STUDY OF SOVIET MOTORIZED RIFLE DIVISIONS IN THE GROUP OF SOVIET FORCES, GERMANY (GSFG) AND THE CENTRAL GROUP OF FORCES, CZECHOSLOVAKIA (CGF).*

25X1

1593
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

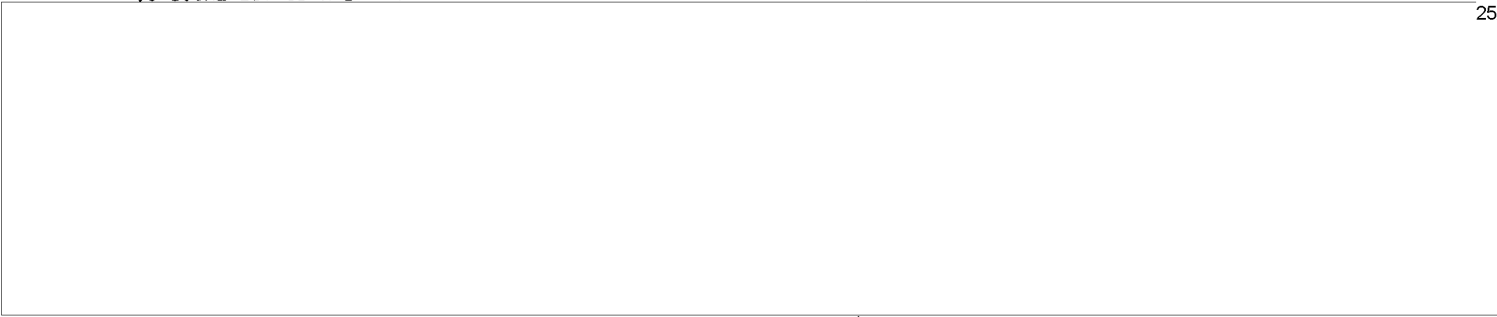
CIA INFR MSD049-77 28 MAR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 10P ACCN: S07979E25X1

KURUMOCH ROCKET ENGINE TEST FACILITY UR 533215N 0495116E
WAC NO : 0165 BE/OBJ NO: [redacted] NPIC NO : - 38
IDHS CODE: [redacted] EPF CAT : 40E COMIREX NO: [redacted]
TRANSPORTATION: AIR COMPRESSOR RR CARS PROB UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85B COMIREX NO:

25X1
25X1

DETAILED PHOTOGRAPHIC ANALYSIS HAS SHOWN THAT THE UNIQUE RAILROAD CARS THAT WERE SEEN AT THE KURUMOCH ROCKET ENGINE TEST FACILITY BETWEEN AUGUST 1971 AND FEBRUARY 1976 WERE PROBABLE AIR COMPRESSOR CARS. APPARENTLY THESE SPECIALIZED RAILROAD CARS PROVIDED COMPRESSED AIR FOR THE TEST FACILITY WHILE A PERMANENT COMPRESSOR INSTALLATION WAS UNDER CONSTRUCTION. A PERMANENT GAS TURBINE COMPRESSOR PLANT WAS CONSTRUCTED AT KURUMOCH BETWEEN NOVEMBER 1970 AND MARCH 1975. THIS GAS TURBINE PLANT HAD PREVIOUSLY BEEN REPORTED AS A SOURCE OF HYDROGEN GAS AND AS A HYDROGEN LIQUEFACTION PLANT.

DURING THE COURSE OF THIS STUDY, A LIQUID HYDROGEN STORAGE AREA WAS IDENTIFIED WITHIN THE TEST FACILITY. THE PRESENCE OF A LIQUID HYDROGEN RAILROAD CAR UNLOADING AT THE STORAGE AREA IN FEBRUARY 1975 REVEALED THAT THE TEST FACILITY RECEIVES LIQUID HYDROGEN BY RAIL, AND THAT IT IS NOT PRODUCED ON SITE. LIQUID HYDROGEN IS MOVED WITHIN THE TEST FACILITY BY A ROAD TRANSPORTER, AND ANOTHER TRANSPORTER IS USED TO STORE LIQUID HYDROGEN AT TEST STAND 4.



25X1

CIA INFR MSD058-77 05 APR 77 [redacted] SEC CLASS: 24 MSN: [redacted] 4P ACCN: S07979E25X1

KUERHLO HF COMMUNICATIONS FACILITY CH 4143 N 08607 E
WAC NO : 0330 BE/OBJ NO: [redacted] NPIC NO :
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO:

25X1
25X1

1594
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

THE COMBINATION OF THE ANTENNA DIRECTIONS AT THE KU-ERH-LO HF COMMUNICATIONS FACILITY, ALONG WITH PREVIOUS SIGHTINGS OF BEAM TRACK RADARS AND MOBILE OPTICAL TRACKING EQUIPMENT, SUGGESTS THAT KU-ERH-LO IS A SUPPORT FACILITY FOR CHINESE SATELLITE RECOVERY OPERATIONS.*

NPIC MEMO [] 06 APR 77 [] SEC CLASS: 14D MSN: [] 3P ACCN: 5079799 25X1

ARSEN'YEV RADIO COMMO RECEIVER STA DF SUPPORT UR 441144N 1331900E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 49
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
ARSEN'YEV DF FACILS/RADIO COMMO XMTR STA SRCH UR 4414 N 13304 E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 25A COMIREX NO:
ARSEN'YEV DF FACILS/RADIO COMMO XMTR STA SRCH UR 4414 N 13304 E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1
25X1

DIA IIM 5B3-52629-77 APR 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: 5079800 25X1

BRATISLAVA EXPLOSIVES PLANT DIMITROVA CZ 461059N 0170831E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35G COMIREX NO:

25X1
25X1

DIA IIM 5B3-52594-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: 5079801 25X1

KAMNIK EXPLOSIVES PLANT YO 461349N 0143622E
WAC NO : 0252 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35G COMIREX NO:

25X1
25X1

DIA IIM 5B3-52670-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5079802 25X1

SPASSK DALNIY AIRFIELD AIR O/B UR 443506N 1325021E
WAC NO : 0282 BE/OBJ NO: [] NPIC NO : - 48-A
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52673-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5079803 25X1

POSTAVY AIRFIELD AIR O/B UR 550703N 0264538E
WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 58-A
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52632-77 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5079804 25X1

1595
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

GORODOK AIRFIELD AIR O/B
WAC NO : 0232
IDHS CODE: []

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

UR 494416N 0234006E
NPIC NO : - 47
COMIREX NO: []

DIA IIM 5B3-52659-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S07980525X1

KRUSTPILS AIRFIELD AIR O/B
WAC NO : 0153
IDHS CODE: []

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

UR 563206N 0255330E
NPIC NO : - 32-C
COMIREX NO: []

DIA IIM 5B3-52671-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S07980625X1

LENINGRAD/GORELOVO AIRFIELD AIR O/B
WAC NO : 0153
IDHS CODE: []

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

UR 594556N 0300432E
NPIC NO : - 36-X
COMIREX NO: []

DIA IIM 5B3-52666-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S07980725X1

KURGAN AIRFIELD
WAC NO : 0164
IDHS CODE: []

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

UR 552824N 0652446E
NPIC NO : - 9-D
COMIREX NO: []

DIA IIM 5B3-52668-77 06 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S07980825X1

VASILYEVO AIRFIELD
WAC NO : 0206
IDHS CODE: []

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

UR 500054N 1552418E
NPIC NO : - 7
COMIREX NO: []

DIA IIM 5B3-52642-77 06 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S07981025X1

OLESNICA AIRFIELD AIR O/B
WAC NO : 0232
IDHS CODE: []

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

PL 511253N 0172618E
NPIC NO : - 124
COMIREX NO: []

DIA IIM 5B3-52652-77 05 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S07981125X1

1596
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	PANEVEZYS AIRFIELD AIR O/B	UR	554348N 0242734E		
	WAC NO : 0168	BE/OBJ NO:	NPIC NO : - 53		25X1
	IDHS CODE:	EPF CAT : 05A	COMIREX NO:		25X1
DIA IIM	5B3-52612-77 05 APR 77		SEC CLASS: 13 MSN:	2P	ACCN: S079812
	LVOV/SKNILOV AIRFIELD AIR O/B	UR	494847N 0235707E		
	WAC NO : 0232	BE/OBJ NO:	NPIC NO : - 95-A		25X1
	IDHS CODE:	EPF CAT : 05A	COMIREX NO:		25X1
DIA IIM	5B3-52651-77 05 APR 77		SEC CLASS: 13 MSN:	5P	ACCN: S079813
	BUCURESTI AIRCRAFT ENGINE PLANT POSS	RO	442556N 0260002E		
	WAC NO : 0251	BE/OBJ NO:	NPIC NO :		25X1
	IDHS CODE:	EPF CAT : 05G	COMIREX NO:		25X1
DIA IIM	5B3-52715-77 12 APR 77		SEC CLASS: 13 MSN:	1P	ACCN: S079814
	CHARDZHOU AIRFIELD POL STORAGE SEARCH	UR	390535N 0633635E		
	WAC NO : 0337	BE/OBJ NO:	NPIC NO : - 1-C		25X1
	IDHS CODE:	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52716-77 12 APR 77		SEC CLASS: 13 MSN:	1P	ACCN: S079815
	CHKALOVSK AIRFIELD POL STORAGE SEARCH	UR	564140N 0431140E		
	WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 83-B		25X1
	IDHS CODE:	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52717-77 12 APR 77		SEC CLASS: 13 MSN:	1P	ACCN: S079816
	GASTELLO AIRFIELD POL STORAGE SEARCH	UR	490635N 1425746E		
	WAC NO : 0205	BE/OBJ NO:	NPIC NO : - 18		25X1
	IDHS CODE:	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52718-77 12 APR 77		SEC CLASS: 13 MSN:	1P	ACCN: S079817
	GINDARKH AIRFIELD POL STORAGE SEARCH	UR	400255N 0471300E		
	WAC NO : 0325	BE/OBJ NO:	NPIC NO : - 19		25X1
	IDHS CODE:	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52694-77 12 APR 77		SEC CLASS: 13 MSN:	1P	ACCN: S079818
	SERGEYEVKA AIRFIELD SOUTH POL STORAGE SEARCH	UR	431809N 1332100E		

1597

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

	WAC NO : 0291	BE/OBJ NO: []	NPIC NO : - 35		25X1
	IDHS CODE: []	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52680-77	08 APR 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: 507981 25X1
	TALLINN/LASNAMEE AIRFIELD POL STORAGE SEARCH			UR 592659N 0245236E	
	WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 76-A		25X1
	IDHS CODE: []	EPF CAT : 05I	COMIREX NO: []		25X1
DIA IIM	5B3-52661-77	12 APR 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: 507982 25X1
	AKIMOVKA AIRFIELD POL STORAGE CAPACITY			UR 464310N 0350155E	
	WAC NO : 0249	BE/OBJ NO: []	NPIC NO : - 83		25X1
	IDHS CODE: []	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52663-77	12 APR 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: 507982 25X1
	DOMANEVKA AIRFIELD SW POL STORAGE CAPACITY			UR 473525N 0305705E	
	WAC NO : 0250	BE/OBJ NO: []	NPIC NO : - 110-B		25X1
	IDHS CODE: []	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52665-77	12 APR 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: 507982 25X1
	YELETS AIRFIELD WEST POL STORAGE CAPACITY			UR 523820N 0382446E	
	WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 89		25X1
	IDHS CODE: []	EPF CAT : 05I	COMIREX NO:		25X1
DIA IIM	5B3-52690-77	12 APR 77	[]	SEC CLASS: 13 MSN: []	2P ACCN: 507982 25X1
	NIZHNEVARTOVSK AIRFIELD NW POL STGE CAPACITY			UR 605716N 0762928E	
	WAC NO : 0099	BE/OBJ NO: []	NPIC NO : - 5-A		25X1
	IDHS CODE: []	EPF CAT : 05I	COMIREX NO: []		25X1
DIA IIM	5B3-52733-77	12 APR 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: 507982 25X1
	MOSKVA/MONINO AIRFIELD			UR 555020N 0381000E	
	WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 46-J		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52710-77	11 APR 77	[]	SEC CLASS: 13 MSN: []	2P ACCN: 507982 25X1
	MOSKVA/SHEREMETYEVO AIRFIELD TAXIWAY WIDTHS			UR 555826N 0372448E	
	WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 92		25X1

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

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

25X1
25X1

DIA IIM 5B2-52560-77 APR 77 [] SEC CLASS: 14B MSN: [] 6P ACCN: S079827 25X1

MOSKALVO PORT FACILITIES NEW UR 533237N 1423118E
WAC NO : 0196 BE/OBJ NO: [] NPIC NO : - 3-A2
IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1
25X1

DIA IIM 5B2-52558-77 APR 77 [] SEC CLASS: 14 MSN: [] 9P ACCN: S079828 25X1

VOSTOCHNYY PORT FACILITIES UR 424340N 1330440E
WAC NO : 0291 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1
25X1

DIA IIM 5B2-52557-77 APR 77 [] SEC CLASS: 14 MSN: [] 5P ACCN: S079829 25X1

BALCHIK PORT FACILITIES BU 432405N 0281010E
WAC NO : 0323 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1
25X1

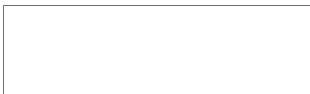
CIA NOTE ISSN0003k-77 31 MAR 77 [] SEC CLASS: 14 MSN: [] 10P ACCN: S079831 25X1

GENERAL: CIVIL DEFENSE KIEVSKAYA OBLAST UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 10A COMIREX NO: []
KAPUSTIN YAR MTC SAM FIRING RNGE SA-X-10 TRNG UR 484828N 0454343E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-A9
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []
MISSILES, SA-2 DEACTIVATED SITES EQUIP STGE UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1
25X1

1599
TOP SECRET CHESS RUFF

25X1

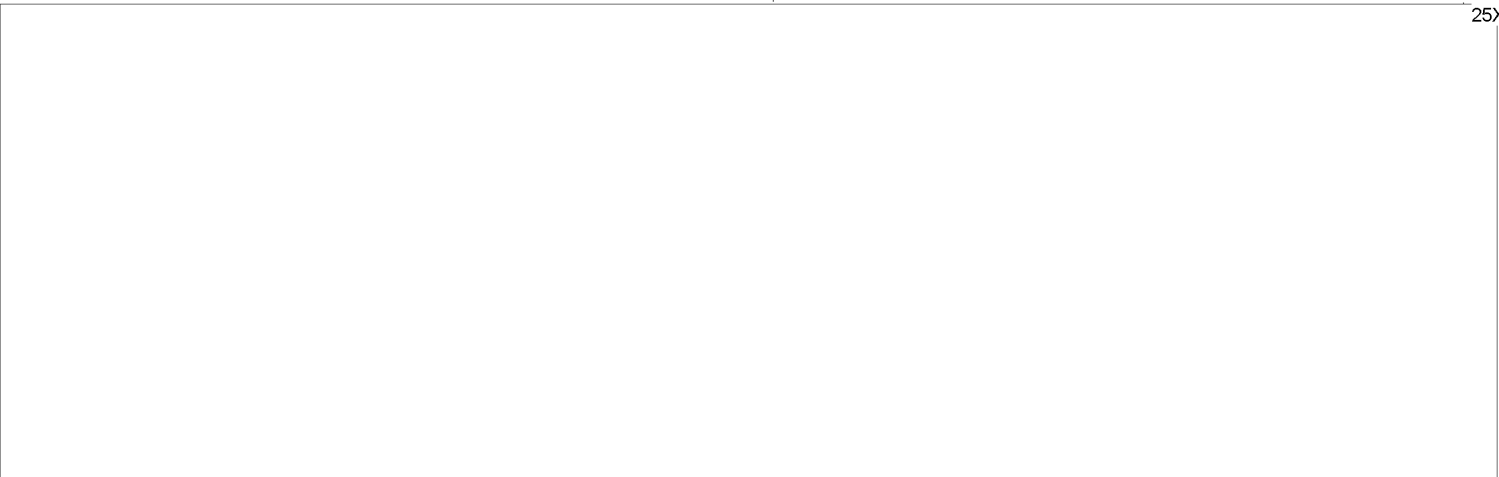


TOP SECRET CHESS RUFF



25X1
25X1

MILITARY, ARTILLERY REGIMENTS MODERNIZATION	CH
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
SUEZ CANAL TUNNEL CONSTRUCTION	EG 2955 N 03233 E
WAC NO : 0447	NPIC NO :
IDHS CODE :	COMIREX NO :
BE/OBJ NO :	
EPF CAT : 35D	
EPF CAT : 85F	



25X1

CIA REPT IS10006K-77 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 14P ACCN: 507983 [redacted] 25X1

YUANAN SOLID PROPELLANT PRODUCTION COMPLEX	CH 310236N 1114056E
WAC NO : 0494	NPIC NO : 7-A1
IDHS CODE: [redacted]	COMIREX NO: [redacted]
BE/OBJ NO: [redacted]	
EPF CAT : 40E	

25X1
25X1

THE COMPOSITE PROPELLANT COMPLEX UNDER CONSTRUCTION AT YUAN-AN IS THE THIRD MAJOR FACILITY FOR COMPOSITE ROCKET MOTOR PRODUCTION TO BE IDENTIFIED IN CHINA. CONSTRUCTION OF THIS COMPLEX STARTED IN 1971 -- ABOUT SEVEN YEARS AFTER THE START OF CONSTRUCTION OF CHINA'S FIRST COMPOSITE ROCKET MOTOR COMPLEX AT HU-HO-HAO-TE AND THREE YEARS AFTER THE START OF THE SECOND AT LAN-TIEN. BOTH HU-HO-HAO-TE AND LAN-TIEN ARE OPERATIONAL; YUAN-AN IS IN THE LATE STAGES OF CONSTRUCTION AND MAY BECOME OPERATIONAL IN 1977.

1600
TOP SECRET CHESS RUFF



25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Large Redacted Area]

25X1

NPIC SR

SR019-77

APR 77

[Redacted]

SEC CLASS: 25F MSN:

4P

ACCN: S079837

25X1

1601
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1
23A1

MISSILES, SSM ACTIVITY SUMMARY WESTERN CHINA CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS REPORT SUMMARIZES SSM ACTIVITY IN WESTERN CHINA WHICH PRECEDED UNPRECEDENTED MULTIPLE MISSILE FIRINGS FROM THE SHUANG-TA FIELD POSITIONS IN LATE MARCH 1977. THREE CSS-1 MISSILES WERE REPORTED FIRED FROM SHUANG-TA TO A NEW IMPACT AREA IN SOUTH CHINA, APPROXIMATELY 167 NAUTICAL MILES (NM) NORTHWEST OF KUN-MING. PROVIDES EVIDENCE THAT FOUR MISSILES WERE LAUNCHED, ONE FROM EACH OF THE FOUR FIELD POSITIONS.

25X1

NPIC MEMO [] 15 APR 77 [] SEC CLASS: 13 MSN: [] 8P ACCN: S07983825X1

KIEV/BORISPOL AIRFIELD AIR SURVEILLANCE RDR UR 502043N 0305344E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 4 25X1
IDHS CODE: [] EPF CAT : 25H COMIREX NO: [] 25X1

NPIC MEMO [] 18 APR 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S07983825X1

POKROVSKOYE ZASEKINO CIVIL DEFENSE FAC SEARCH UR 5539 N 03650 E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 10A COMIREX NO: []

NPIC MEMO [] 18 APR 77 [] SEC CLASS: 14D MSN: [] 2P ACCN: S07984025X1

TAVRICHANKA THICK EIGHT HF/DF FAC FIX 24 SRCH UR 431800N 1314955E
WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 71-A4 25X1
IDHS CODE: [] EPF CAT : 25A COMIREX NO: [] 25X1

NPIC MEMO [] 18 APR 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S07984025X1

ARAMIL KRUG DF FACILITY UR 564728N 0605442E
WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 26-H 25X1
IDHS CODE: [] EPF CAT : 25A COMIREX NO: [] 25X1

ARAMIL RADIO COMMO RECEIVER STATION KRUG SUPT UR 564603N 0610225E
WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 26-P2 25X1
IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

NPIC MEMO [] 18 APR 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S07984025X1

RUSTAVI KRUG DF FACILITY UR 412420N 0450720E

1602

TOP SECRET CHESS RUFF ZARF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 52-A	25X1
IDHS CODE: []	EPF CAT : 25A	COMIREX NO: []	25X1
RUSTAVI RADIO COMMO XMTR STATION 2 KRUG SUPT	UR 412632N 0450925E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 52-6	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
RUSTAVI RADIO COMMO RCVR STATION 1 KRUG SUPT	UR 412700N 0450900E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 52-G1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

DIA IIM 5B3-52755-77 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5079843 25X1

NOVO BOGDANOVKA AIRFIELD POL STORAGE SEARCH	UR 470615N 0351630E		
WAC NO : 0249	BE/OBJ NO: []	NPIC NO : - 24-D	25X1
IDHS CODE: []	EPF CAT : 05I	COMIREX NO:	25X1

DIA IIM 5B3-52578-77 APR 77 [] SEC CLASS: 13 MSN: [] 9P ACCN: 5079844 25X1

STRAZSKE CHEMICAL PLANT CHEMKO	CZ 485250N 0214852E		
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 230	25X1
IDHS CODE: []	EPF CAT : 30F	COMIREX NO: []	25X1

DIA IIM 5B3-52739-77 14 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5079845 25X1

SEVEROURALSK AIRFIELD POL/AMMO STORAGE SEARCH	UR 601808N 0600441E		
WAC NO : 0100	BE/OBJ NO: []	NPIC NO : - 5-B	25X1
IDHS CODE: []	EPF CAT : 05I	COMIREX NO:	25X1

DIA IIM 5B3-52734-77 14 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: 5079846 25X1

LENINGRAD/LEVASHEVO AFLD POL/AMMO STGE SEARCH	UR 600516N 0301134E		
WAC NO : 0103	BE/OBJ NO: []	NPIC NO : - 42-H	25X1
IDHS CODE: []	EPF CAT : 05I	COMIREX NO: []	25X1

DIA IIM 5B3-52732-77 14 APR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: 5079847 25X1

ARKALYK AIRFIELD NORTH POL STORAGE CAPACITY	UR 501857N 0665734E		
WAC NO : 0237	BE/OBJ NO: []	NPIC NO : - 15-A2	25X1
IDHS CODE: []	EPF CAT : 05I	COMIREX NO:	25X1

1603
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA	IIM	5B3-52753-77	14 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079848	25X1
		GORODOK AIRFIELD NE POL STORAGE CAPACITY			UR	494935N 0234130E			
		WAC NO : 0232		BE/OBJ NO: [REDACTED]	NPIC NO : - 341-A				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO:				25X1
DIA	IIM	5B3-52756-77	14 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079848	25X1
		BOLSHOY TOKMAK AIRFIELD POL STORAGE CAPACITY			UR	471717N 0354238E			
		WAC NO : 0249		BE/OBJ NO: [REDACTED]	NPIC NO : - 66				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO:				25X1
DIA	IIM	5B3-52758-77	14 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079850	25X1
		PALMIRA AIRFIELD POL STORAGE CAPACITY			UR	494600N 0320708E			
		WAC NO : 0233		BE/OBJ NO: [REDACTED]	NPIC NO : - 141				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO:				25X1
DIA	IIM	5B3-52761-77	14 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079851	25X1
		VOINKA AIRFIELD POL STORAGE CAPACITY			UR	455343N 0335320E			
		WAC NO : 0250		BE/OBJ NO: [REDACTED]	NPIC NO :				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO:				25X1
DIA	IIM	5B3-52766-77	14 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	2P	ACCN: S079852	25X1
		NAVOI AIRFIELD			UR	400702N 0651117E			
		WAC NO : 0327		BE/OBJ NO: [REDACTED]	NPIC NO : - 5-A				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05A	COMIREX NO:				25X1
DIA	IIM	5B3-526886-77	15 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079853	25X1
		LYANGASOVO AIRFIELD POL STORAGE CAPACITY			UR	582952N 0492110E			
		WAC NO : 0155		BE/OBJ NO: [REDACTED]	NPIC NO : - 47				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO: 2C1561				25X1
DIA	IIM	5B3-52691-77	15 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079854	25X1
		NUKUS AIRFIELD POL STORAGE CAPACITY			UR	422904N 0593723E			
		WAC NO : 0327		BE/OBJ NO: [REDACTED]	NPIC NO : - 10-A				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO:				25X1
DIA	IIM	5B3-52741-77	15 APR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S079855	25X1

1604

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

VORKUTA AIRFIELD POL STORAGE CAPACITY UR 672917N 0635937E
WAC NO : 0094 BE/OBJ NO: [] NPIC NO : - 4-D
IDHS CODE: [] EPF CAT : 05I COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52726-77 15 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: 5079856 25X1

BATUMI AIRFIELD POL STORAGE CAPACITY UR 413639N 0413602E
WAC NO : 0324 BE/OBJ NO: [] NPIC NO : - 3-B
IDHS CODE: [] EPF CAT : 05I COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52757-77 15 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: 5079857 25X1

NEZHIN AIRFIELD BACKFIRE CANVAS-COVERED SRCH UR 510519N 0315207E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 40
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

NPIC IIR IIR004-77 18 APR 77 [] SEC CLASS: 14B MSN: [] 2P

ACCN: 5079858 25X1

SARY SHAGAN MTC R+D RADAR FAC 3 SQUARE PAIR UR 455800N 0733810E
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 2-D1
IDHS CODE: [] EPF CAT : 25E COMIREX NO: []

25X1
25X1

SARY SHAGAN MTC R+D RADAR FAC 3 SQUARE PAIR UR 455800N 0733810E
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 2-D1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

TWO SQUARE PAIR RADARS WERE OBSERVED FULLY ASSEMBLED AT SARY-SHAGAN RESEARCH AND DEVELOPMENT (R+D) RADAR FACILITY 3 [] THEY WERE DEPLOYED ON CONCRETE PADS NEAR THE TWO LARGE PROBABLE RADARS HOUSED UNDER ENVIRONMENTAL COVERS AT OPPOSITE ENDS OF A RADAR CONTROL BUILDING. THE COMMAND GUIDANCE ANTENNAS FOR THE SQUARE PAIR DID NOT APPEAR TO BE ATTACHED, AND NO MODIFICATIONS WERE DISCERNIBLE. NEITHER SQUARE PAIR WOULD OPERATE EFFECTIVELY WITH THE CURRENT ORIENTATION (TOWARD THE RADAR FACILITY SUPPORT BUILDINGS), AND EACH SHOULD BE TURNED IN A NORTH-WEST AZIMUTH TOWARD THE CENTER OF THE SARY-SHAGAN MISSILE TEST RANGE.

25X1

NPIC IIR IIR005-77 18 APR 77 [] SEC CLASS: 14A MSN: [] 2P

ACCN: 5079859 25X1

MOCAMEDES AIRFIELD NEW IDENTIFICATION AO 151600S 0120900E
WAC NO : 1150 BE/OBJ NO: [] NPIC NO : - 2-B
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

25X1

1605
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Redacted]

25X1

CIA INFR MSD063-77 14 APR 77 [Redacted] SEC CLASS: 24 MSN: [Redacted] 11P ACCN: S07986 25X1

KAPUSTIN YAR MTC
WAC NO : 0235 BE/OBJ NO: [Redacted] UR 484107N 0455853E
IDHS CODE: [Redacted] EPF CAT : 40E NPIC NO : - 10
COMIREX NO: [Redacted]

25X1
25X1

THIS REPORT IS A SUMMARY OF RANGEHEAD ACTIVITY AT KAPUSTIN YAR MTC [Redacted]

25X1
25X1

CIA INFR TSD038-77 13 APR 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 6P ACCN: S07986 25X1

GELENDZHNIK OCEANOLOGY INSTITUTE
WAC NO : 0249 BE/OBJ NO: [Redacted] UR 443440N 0375900E
IDHS CODE: [Redacted] EPF CAT : 65A NPIC NO : - 28-N2
COMIREX NO: [Redacted]
GELENDZHNIK OCEANOLOGY INSTITUTE
WAC NO : 0249 BE/OBJ NO: [Redacted] UR 443440N 0375900E
IDHS CODE: [Redacted] EPF CAT : 75F NPIC NO : - 28-N2
COMIREX NO: [Redacted]

25X1
25X1.1
25X1
25X1

THE SOVIET BLACK SEA EXPERIMENTAL SCIENTIFIC RESEARCH STATION (CHENIS) IS A CIVILIAN OCEANOGRAPHIC RESEARCH CENTER. IT IS SUBORDINATE TO THE INSTITUTE OF OCEANOLOGY OF THE ACADEMY OF SCIENCES AND IS ALSO KNOWN AS THE SOUTHERN BRANCH OF THE INSTITUTE OF OCEANOLOGY. CHENIS IS LOCATED ON GOLUBAYA BUKHTA (BLUE GULF) BETWEEN NOVOROSSIIYSK AND GELENDZHNIK, ON THE NORTHEAST COAST OF THE BLACK SEA. IT SHARES BLUE GULF WITH A SOLAR RESEARCH FACILITY. CHENIS IS REPORTED TO CONDUCT A WIDE VARIETY OF OCEANOGRAPHIC WORK. THIS INCLUDES THE MAN-IN-THE-SEA PROGRAM, HYDROACOUSTIC RESEARCH, PHYSICAL OCEANOLOGY, SATURATION DIVING, AND EXPERIMENTING WITH MANNED AND UNMANNED SUBMERSIBLES. WE HAVE IDENTIFIED A WIDE VARIETY OF OCEANOGRAPHIC EQUIPMENT AT CHENIS. THIS INCLUDES TWO HABITATS AND TWO MANNED SUBMERSIBLES, TWO PROBABLE UNMANNED SUBMERSIBLES, TWO INSTRUMENT PLATFORMS, AND A POSSIBLE HYDROACOUSTIC DEVICE. IN ADDITION, CHENIS USES TWO LENTRA CLASS TRAWLERS IN SUPPORT OF ITS WORK.

25X1

[Redacted]

1606
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

NPIC MEMO [redacted] 19 APR 77 [redacted] SEC CLASS: 14B MSN: [redacted] 2P ACCN: S079864 25X1

KARAVAN RADIO RELAY STATION PROB UR 412622N 0714255E
WAC NO : 0328 BE/OBJ NO: [redacted] NPIC NO : - 115-B 25X1
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted] 25X1

THIS MEMO GIVES A CURRENT DESCRIPTION OF THE KARAVAN PROBABLE RADIO-RELAY STATION. KEYHOLE PHOTOGRAPHY WAS USED. BECAUSE THERE HAS BEEN NO PHOTOGRAPHIC COVERAGE OF THE AREA BETWEEN KARAVAN AND TASH-KUMYR SINCE 24 NOV 1974, THAT PORTION OF THE REQUIREMENT IS CONTINUING.* 25X1

NPIC MEMO [redacted] 19 APR 77 [redacted] SEC CLASS: 14B MSN: [redacted] 2P ACCN: S079865 25X1

KAUNAS RADIO COMMUNICATIONS RECEIVER STA KGB UR 544531N 0235624E
WAC NO : 0168 BE/OBJ NO: [redacted] NPIC NO : - 29-G 25X1
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted] 25X1

THIS MEMO DESCRIBES FISHBONE ANTENNAS AT THE KAUNAS KGB RADIO COMMUNICATIONS RECEIVER STATION. BASED ON IT UPDATES INFORMATION IN NPIC REPORT [redacted] 25X1

NPIC IIR IIR008-77 20 APR 77 [redacted] SEC CLASS: 14A MSN: [redacted] 2P ACCN: S079866 25X1

CABINDA HF RADIO COMMUNICATIONS STATION IDENT AO 053400S 0121200E
WAC NO : 1027 BE/OBJ NO: [redacted] NPIC NO : - 19-B 25X1
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted] 25X1

NPIC IIR IIR009-77 20 APR 77 [redacted] SEC CLASS: 14 MSN: [redacted] 2P ACCN: S079867 25X1

CAMIARA ARMY BARRACKS + HQ T-55 TANKS IDENT PE 174205S 0705050W
WAC NO : 1194 BE/OBJ NO: [redacted] NPIC NO : - 14 25X1
IDHS CODE: [redacted] EPF CAT : 35A COMIREX NO: [redacted] 25X1

DIA IIM 5B3-52714-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 2P ACCN: S079868 25X1

VORONKOVO AIRFIELD POL STORAGE CAPACITY UR 474104N 0290616E
WAC NO : 0250 BE/OBJ NO: [redacted] NPIC NO : - 78 25X1
IDHS CODE: [redacted] EPF CAT : 05I COMIREX NO: [redacted] 25X1

DIA IIM 5B3-52720-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 2P ACCN: S079869 25X1

VOLGOGRAD/GUMRAK AIRFIELD POL STORAGE CAPCY UR 484700N 0442038E
WAC NO : 0235 BE/OBJ NO: [redacted] NPIC NO : - 16-F 25X1
IDHS CODE: [redacted] EPF CAT : 05I COMIREX NO: [redacted] 25X1

1607
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

DIA IIM 5B3-52736-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S0798725X1

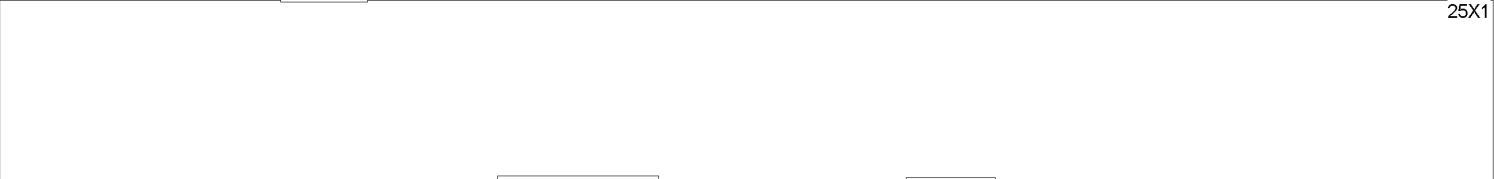
DZHEBEL AIRFIELD POL STORAGE CAPACITY UR 394052N 0541223E
WAC NO : 0338 BE/OBJ NO: [redacted] NPIC NO : - 14
IDHS CODE: [redacted] EPF CAT : 051 COMIREX NO: [redacted]

25X1
25X1

DIA IIM 5B3-52738-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0798725X1

UMBA AIRFIELD NW U/C UR 665430N 0335130E
WAC NO : 0091 BE/OBJ NO: [redacted] NPIC NO : - 53
IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO:

25X1
25X1



25X1

DIA IIM 5B3-52746-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0798725X1

ENGOZERO AIRFIELD POL/AMMUNITION STORAGE SRCH UR 655205N 0335545E
WAC NO : 0091 BE/OBJ NO: [redacted] NPIC NO : - 37
IDHS CODE: [redacted] EPF CAT : 051 COMIREX NO:

25X1
25X1

DIA IIM 5B3-52747-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0798725X1

ONEGA/ANDZERO AIRFIELD POL/AMMO STORAGE SRCH UR 635500N 0382550E
WAC NO : 0102 BE/OBJ NO: [redacted] NPIC NO : - 50
IDHS CODE: [redacted] EPF CAT : 051 COMIREX NO:

25X1
25X1

DIA IIM 5B3-52748-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0798725X1

SALMI AIRFIELD POL/AMMUNITION STORAGE SEARCH UR 612259N 0315658E
WAC NO : 0103 BE/OBJ NO: [redacted] NPIC NO : - 45
IDHS CODE: [redacted] EPF CAT : 051 COMIREX NO:

25X1
25X1

DIA IIM 5B3-52750-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S0798725X1

I2MAIL AIRFIELD POL STORAGE CAPACITY UR 452348N 0284813E
WAC NO : 0250 BE/OBJ NO: [redacted] NPIC NO : - 33-A1

25X1



25X1

1608
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

	IDHS CODE:	<input type="text"/>	EPF CAT : 051	COMIREX NO:					25X1
DIA IIM	5B3-52751-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	1P		ACCN: S079877	25X1
	SIZOVKA AIRFIELD POL STORAGE SEARCH			UR	452139N 0335132E				25X1
	WAC NO : 0250	BE/OBJ NO: <input type="text"/>		NPIC NO : - 134					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1
DIA IIM	5B3-52752-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	3P		ACCN: S079878	25X1
	POLOTSK AIRFIELD SOUTH POL STORAGE CAPACITY			UR	552442N 0284458E				25X1
	WAC NO : 0168	BE/OBJ NO: <input type="text"/>		NPIC NO : - 57-6					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1
DIA IIM	5B3-52754-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	1P		ACCN: S079879	25X1
	AKIMOVKA AIRFIELD POL STORAGE CAPACITY			UR	464310N 0350155E				25X1
	WAC NO : 0249	BE/OBJ NO: <input type="text"/>		NPIC NO : - 83					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1
DIA IIM	5B3-52662-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	3P		ACCN: S079880	25X1
	AZOVSKOYE AIRFIELD POL STORAGE CAPACITY			UR	453311N 0343319E				25X1
	WAC NO : 0250	BE/OBJ NO: <input type="text"/>		NPIC NO : - 143					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1
DIA IIM	5B3-52664-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	1P		ACCN: S079881	25X1
	IZMAIL AIRFIELD POL STORAGE CAPACITY			UR	452348N 0284813E				25X1
	WAC NO : 0250	BE/OBJ NO: <input type="text"/>		NPIC NO : - 33-A1					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1
DIA IIM	5B3-52770-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	3P		ACCN: S079882	25X1
	ZHITOMIR AIRFIELD POL STORAGE CAPACITY			UR	501635N 0284344E				25X1
	WAC NO : 0233	BE/OBJ NO: <input type="text"/>		NPIC NO : - 67-P					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1
DIA IIM	5B3-52772-77	18 APR 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	1P		ACCN: S079883	25X1
	PODGAYTSY AIRFIELD POL STORAGE CAPACITY SRCH			UR	491900N 0251300E				25X1
	WAC NO : 0233	BE/OBJ NO: <input type="text"/>		NPIC NO : - 84					25X1
	IDHS CODE: <input type="text"/>	EPF CAT : 051		COMIREX NO:					25X1

1609
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF

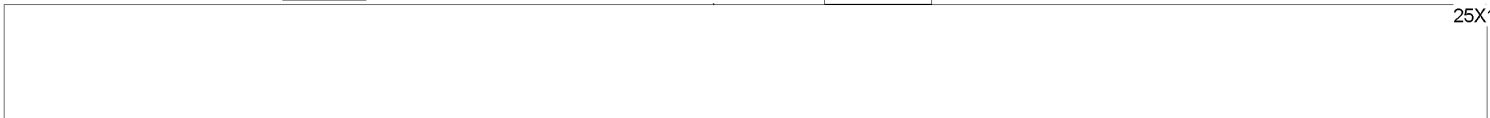


25X1
ZSA

DIA IIM 5B3-52689-77 18 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S0798825X1

MIKHAYLOVSKOYE AIRFIELD POL STORAGE CAPACITY UR 450631N 0420634E
WAC NO : 0249 BE/OBJ NO: [redacted] NPIC NO : - 25
IDHS CODE: [redacted] EPF CAT : 05I COMIREX NO: [redacted]

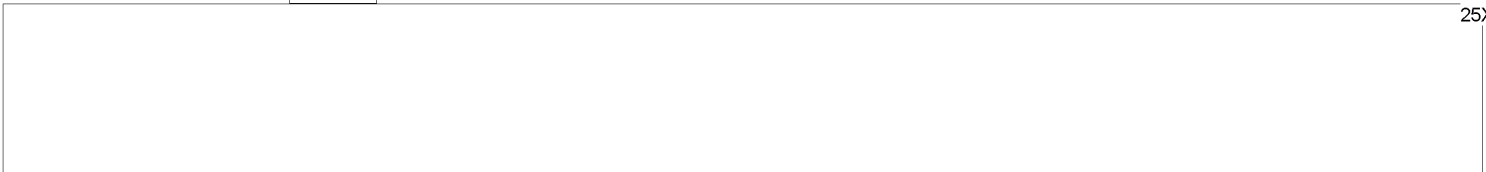
25X1
25X1
25X1



NPIC IIR IIR010-77 20 APR 77 [redacted] SEC CLASS: 14 MSN: [redacted] 2P ACCN: S0798825X1

CALLAO EXOCET MISSILE TEST/MAINT FAC PROB U/C PE 120249S 0770825W
WAC NO : 1135 BE/OBJ NO: [redacted] NPIC NO : - 1-F
IDHS CODE: [redacted] EPF CAT : 40G COMIREX NO:

25X1
25X1
25X1



NPIC IIR IIR013-77 21 APR 77 [redacted] SEC CLASS: 14D MSN: [redacted] 2P ACCN: S0798825X1

NIKOLAYEV SHIPYARD 444 SLBM POP-UP TEST BARGE UR 465705N 0315816E
WAC NO : 0250 BE/OBJ NO: [redacted] NPIC NO : - 46-B
IDHS CODE: [redacted] EPF CAT : 75E COMIREX NO: [redacted]
MISSILES, SLBM POP-UP TEST BARGE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:

25X1
ZSA
ZSA



25X1

1610
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA STDY DST1710S-216-77 28 FEB 77 [] SEC CLASS: 25 MSN: 167P ACCN: 5079890 25X1

ELECTRONICS, EW/GCI/HEIGHT FINDING RADARS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

THIS STUDY IS A COMPREHENSIVE SUMMARY OF THE CHARACTERISTICS AND CAPABILITIES OF AIRCRAFT CONTROL AND WARNING (AC+W) RADARS USED BY THE PEOPLE'S REPUBLIC OF CHINA (PRC). IT INCLUDES BRIEF DESCRIPTIONS OF RADARS OF EARLY PRC DESIGN AND RADARS OF SOVIET DESIGN COPIED BY THE CHINESE. MORE DETAILED DESCRIPTIONS OF A NUMBER OF RECENTLY DEPLOYED PRC AC+W RADARS CONSTITUTE THE BULK OF THE STUDY. WHERE DATA ARE SUFFICIENT, ESTIMATED PERFORMANCE, CHARACTERISTICS, AND CAPABILITIES OF THESE NEW SYSTEMS ARE ALSO PRESENTED.

DIA STDY DST1400S-294-76 12 APR 76 [] SEC CLASS: 25 MSN: 56P ACCN: 5079891 25X1

ELECTRONICS, SPACE VEHICLE GUIDANCE/CONTROL UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:
ELECTRONICS, SPACE VEHICLE GUIDANCE/CONTROL CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THE PURPOSE OF THIS STUDY IS TO PROVIDE ADDITIONAL INFORMATION ON ASSESSMENTS OF SPACE VEHICLE GUIDANCE AND CONTROL STATE-OF-THE-ART, DEVELOPMENTAL TRENDS, AND FORECASTS OF FUTURE CAPABILITIES WITHIN THE EURASIAN COMMUNIST COUNTRIES (ECC). SOVIET SYSTEMS AND PRC SYSTEMS ARE DESCRIBED.

DIA STDY DST1170S-128-77 MAR 77 [] SEC CLASS: 13 MSN: 120P ACCN: 5079893 25X1

ELECTRONICS, COMMAND CNTRL NUC SURVIVABILITY CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:
WONICHAIR IRBM SITE 1 RADIO COMMO STA BKR HARD CH 232240N 1024530E
WAC NO : 0616 BE/OBJ NO: NPIC NO : - 515-D1
IDHS CODE: EPF CAT : 25C COMIREX NO:
ITU SSM TRAINING SCHOOL RADCOM STA BKR HARD CH 363535N 1181940E
WAC NO : 0381 BE/OBJ NO: NPIC NO : - 197-C
IDHS CODE: EPF CAT : 25C COMIREX NO:
LIENKENGWANG IRBM SITE 5 RADCOM STA BKR HARD CH 300545N 1173440E

25X1
25X1

25X1
25X1

1611
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 124-I1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO:	25X1
LIUCHINGKOU SSM COMPLEX COMMAND POST BUNKERED		CH 380900N 1001055E	
WAC NO : 0332	BE/OBJ NO: []	NPIC NO : - 36-F1	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO:	25X1
LUSHUN RADIO COMMUNICATIONS STA SW BKR HARD		CH 384528N 1210954E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 53-Q5	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
NANCHAO RADIO COMMO STATION EAST BUNKER HARD		CH 332936N 1122935E	
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 117-D	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
SANLIKANG RADIO COMMUNICATIONS STA BKR HARD		CH 313340N 1125646E	
WAC NO : 0494	BE/OBJ NO: []	NPIC NO : - 39-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
HSIAOLINGTZU AIRFIELD RADCOM STATION BKR HARD		CH 410615N 1210137E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 7-A3	25X1
IDHS CODE: []	EPF CAT : 25H	COMIREX NO:	25X1
TUNGHUA SSM COMPLEX COMMAND POST BUNKERED		CH 413615N 1255158E	
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 66-K	25X1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	25X1
HOCHUAN RADIO COMMO STATION NORTH BUNKER HARD		CH 401450N 1230220E	
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 187-B	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
FOUHSIN AIRFIELD 2 RADCOM STATION SE BKR HARD		CH 420430N 1214005E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 8-K3	25X1
IDHS CODE: []	EPF CAT : 25H	COMIREX NO: []	25X1
KANTZU RADIO COMMUNICATIONS STA SE BKR HARD		CH 401550N 1225735E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 53-B	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
FOUHSIN AIRFIELD 2 RADCOM STA NORTH BKR HARD		CH 420600N 1213920E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 8-K4	25X1
IDHS CODE: []	EPF CAT : 25H	COMIREX NO: []	25X1
TIEHLING RADIO COMMUNICATIONS STA SE BKR HARD		CH 421311N 1240229E	
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 61-E	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
HSIAOLINGTZU AIRFIELD RADCOM STATION WEST BKR		CH 410625N 1210105E	
WAC NO : 0289	BE/OBJ NO: []	NPIC NO : - 7-A2	25X1
IDHS CODE: []	EPF CAT : 25H	COMIREX NO: []	25X1
LINGCHIU AIRFIELD RADIO COMMO STA BUNKER HARD		CH 392528N 1141157E	
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 65-E	25X1
IDHS CODE: []	EPF CAT : 25H	COMIREX NO: []	25X1
WUMAOCHIEN AIRFIELD RADIO COMMO STA BKR HARD		CH 403855N 1090215E	
WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 34-A	25X1

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

CHANGSHA RADIO COMMO STATION NNW BUNKER HARD	CH 281750N 1124630E
WAC NO : 0494	BE/OBJ NO: [] NPIC NO : - 1-A4
IDHS CODE: []	EPF CAT : 25D COMIREX NO: []
KUANGCHOU RADIO STATION BUNKERED HARD	CH 231142N 1132013E
WAC NO : 0614	BE/OBJ NO: [] NPIC NO : - 2-N3
IDHS CODE: []	EPF CAT : 25D COMIREX NO: []
CHACHEN RADIO COMMUNICATIONS STATION BKR HARD	CH 325740N 1075820E
WAC NO : 0384	BE/OBJ NO: [] NPIC NO : - 115-A
IDHS CODE: []	EPF CAT : 25D COMIREX NO: []
LEICHUANG AIRFIELD RADIO COMMO STA BKR HARD	CH 262534N 1063331E
WAC NO : 0496	BE/OBJ NO: [] NPIC NO : - 10-E4
IDHS CODE: []	EPF CAT : 25H COMIREX NO: []
SUNTIEN ICBM SITE 1 RADIO COMMO STA BKR HARD	CH 334445N 1120030E
WAC NO : 0385	BE/OBJ NO: [] NPIC NO : - 125-C2
IDHS CODE: []	EPF CAT : 25C COMIREX NO: []
CHANGSHA/TATO AIRFIELD RADCOM STA BUNKER HARD	CH 280605N 1130005E
WAC NO : 0494	BE/OBJ NO: [] NPIC NO : - 1-68
IDHS CODE: []	EPF CAT : 25H COMIREX NO: []
CHANGCHIAKOU AIRFIELD SE RADCOM STA BKR HARD	CH 404450N 1145545E
WAC NO : 028A	BE/OBJ NO: [] NPIC NO : - 2-H2
IDHS CODE: []	EPF CAT : 25H COMIREX NO: []

25X1
225X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

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25X1

25X1
25X1

THIS STUDY PRESENTS AN ANALYSIS OF PROBABLE BURIED ANTENNAS BEING DEPLOYED AS A NUCLEAR SURVIVABLE COMMAND/CONTROL COMMUNICATION SYSTEM WITHIN THE PEOPLE'S REPUBLIC OF CHINA. CHARACTERISTICS OF BURIED ANTENNAS ARE DEVELOPED AND APPLIED TO THE PEOPLE'S REPUBLIC OF CHINA SYSTEM. AN ANNOTATED PHOTOGRAPH AND A NARRATIVE DESCRIPTION OF EACH INSTALLATION IS INCLUDED.

THE FIRST PROBABLE BURIED ANTENNAS WITHIN THE PEOPLE'S REPUBLIC OF CHINA WERE DETECTED IN 1973 AT THE SUNTIEN INTERCONTINENTAL BALLISTIC MISSILE COMPLEX. SINCE THEN, A TOTAL OF 38 SITES WITH 131 ANTENNAS HAS BEEN IDENTIFIED. OF THESE SITES, 16 ARE ASSOCIATED WITH AIRFIELDS, 8 ARE ASSOCIATED WITH SURFACE-TO-SURFACE MISSILE COMPLEXES, AND 1 IS ASSOCIATED WITH A MILITARY REGION HEADQUARTERS. ANY ASSOCIATION OF THE REMAINING 13 SITES IS UNKNOWN. EACH SITE CONSISTS OF ONE OR MORE BURIED ANTENNAS AND AT LEAST ONE UNDERGROUND FACILITY. THE ANTENNAS ARE CONSIDERED TO BE BURIED HALF-WAVE DIPOLES OPERATING BELOW 6 MHZ, EMPLOYING EITHER SURFACE WAVE PROPAGATION OR SKY WAVE PROPAGATION. THE APPEARANCE OF ONLY ONE ANTENNA AT SOME SITES AND THE ESTIMATED OPERATING FREQUENCIES SUPPORT THE THEORY THAT THE ANTENNAS OPERATE USING THE SURFACE WAVE MODE IN THE MEDIUM-FREQUENCY RANGE. BASED ON THE SURFACE WAVE RADIATION CHARACTERISTICS, POSSIBLE CORRESPONDENTS ARE IDENTIFIED. FURTHERMORE, IT IS SHOWN THAT A NUMBER OF BURIED ANTENNA INSTALLATIONS ALSO HAVE ACCESS TO THE NATIONAL BURIED CABLE SYSTEM. THIS SYSTEM PROBABLY PROVIDES FOR PRIMARY COMMUNICATIONS, AND THE BURIED ANTENNA SYSTEM PROBABLY PROVIDES FOR ALTERNATE COMMUNICATIONS. A THOROUGH KNOWLEDGE OF BOTH THE BURIED ANTENNA SYSTEM AND THE NATIONAL BURIED CABLE SYSTEM CAN PROVIDE A SIGNATURE FOR IDENTIFICATION OF UNDETECTED MILITARY INSTALLATIONS WITHIN THE PEOPLE'S REPUBLIC OF CHINA.

DIA STDY DST1000R-546-77 31 JAN 77 [] SEC CLASS: 25 MSN: 76P ACCN: S0798925X1

1614
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

MISSILES, BALLISTIC MISSILE SYSTEMS ACTIVITY UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS SEMI-ANNUAL PUBLICATION REPORTS ON ACTIVITY AND ASSESSMENT OF THE SOVIET BALLISTIC MISSILE PROGRAM RELATED TO OPERATIONAL AND EMERGING MRBM, IRBM, AND ICBMS.

SAC BREF BSF250-1-02-76 OCT 76 [] SEC CLASS: 13 MSN: [] 12P ACCN: S079896 25X1

MISSILES, 1-BAY SLIDING-ROOF BUILDINGS CONST UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS BRIEF DESCRIBES THE CONSTRUCTION PROCESS OF THE SINGLE-BAY SLIDING ROOF BUILDINGS WHICH PROVIDE THE STRATEGIC ROCKET FORCES WITH A QUICK-RESPONSE LAUNCH CAPABILITY FOR A MOBILE COLD-LAUNCH MISSILE SYSTEM. THESE BUILDINGS ARE LOCATED AT DROVYANAYA ICBM LAUNCH SITE 4, KONKOVICHI MRBM LAUNCH SITE 1 AND KOZHANOVICHI MRBM LAUNCH SITE 2. THE BUILDING CAN BE CONSTRUCTED EASILY AND QUICKLY BY PRE-FABRICATED PARTS. A FURTHER DISCUSSION OF THE PURPOSE AND FUNCTION OF THESE AND OTHER BUILDINGS LOCATED AT THE ABOVE LAUNCH SITES IS CONTAINED WITHIN 544TH ARTW []

25X1

SAC BREF BSF250-1-01-76 OCT 76 [] SEC CLASS: 13 MSN: [] 11P ACCN: S079897 25X1

MISSILES, SS-X-20 DEPLOYMENT TECHNIQUES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

OPERATIONAL DEPLOYMENT OF THE SS-X-20 SOLID PROPELLANT IRBM IS EXPECTED TO BEGIN IN THE SOVIET UNION IN EARLY 1977. DURING THE R+D, TEST FIRING, AND EARLY TROOP TRAINING PHASES OF THE DEVELOPMENT OF THIS MISSILE SYSTEM, THE SOVIETS EFFECTIVELY CONCEALED FROM VIEW ALL EVIDENCE THAT COULD HAVE LED TO DEVELOPMENT OF DEPLOYMENT SIGNATURE PATTERNS OR PROJECTED TECHNIQUES OF OPERATIONAL DEPLOYMENT. BEGINNING WITH PHOTO COVERAGE OF JULY 1976, HOWEVER, CERTAIN PATTERNS IN CONSTRUCTION AND TRAINING ACTIVITIES HAVE BEGUN TO EMERGE THAT ENABLE US TO PROJECT HOW WE EXPECT THE SOVIETS WILL DEPLOY THIS NEW SYSTEM. CONSTRUCTION OF CERTAIN CHARACTERISTIC SUPPORT BUILDINGS OF THE SAME TYPE AND DIMENSIONS HAVE BEEN OBSERVED TO DATE AT KONKOVICHI MRBM LS-1, KOZHANOVICHI MRBM LS-2, DROVYANAYA ICBM LS-4, AND PLESETSK ICBM LAUNCH SITES 4 AND 7. INFORMATION DERIVED FROM OBSERVATION OF TRAINING ACTIVITIES HAS COME FROM PHOTO COVERAGE OF THE KASPUSTIN YAR MISSILE TEST CENTER.

SAC DSII B BSF01-3001-77 MAR 77 [] SEC CLASS: 13 MSN: [] 10P ACCN: S079898 25X1

MISSILES, ICBM TYPE 3C/3D/3X SILO/LCC CONNECT UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

1615
TOP SECRET CHESS RUFF

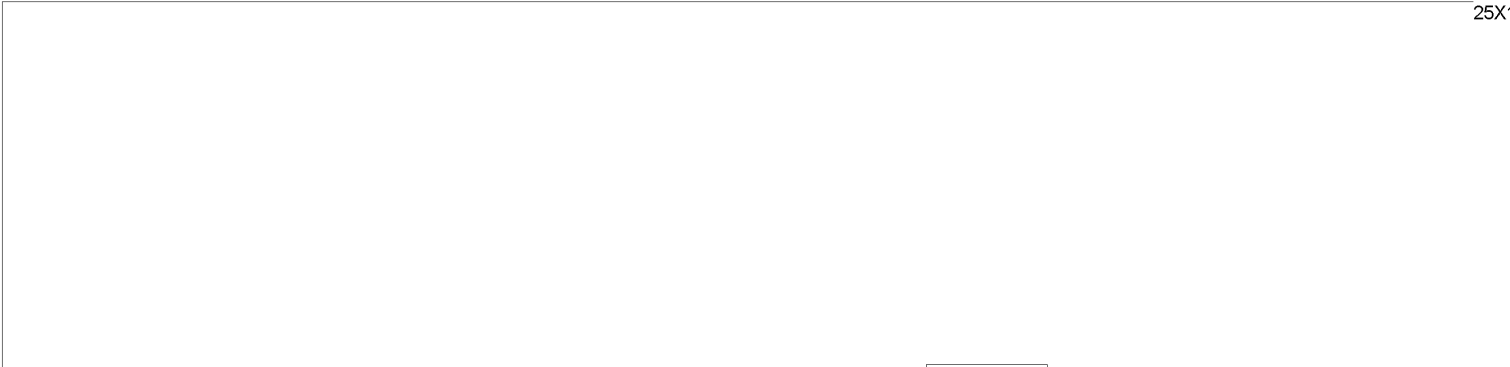


TOP SECRET CHESS RUFF



25X1

PRIOR TO 1976, THE OLD IIIC/IIID LCC'S WITH COLLOCATED III-X COMMAND SILOS APPEARED TO BE ABANDONED OR UTILIZED FOR STATIC STORAGE. IT NOW APPEARS THAT THEY ARE BEING CONNECTED BY UNDERGROUND PERSONNEL CONDUIT TO THE III-X COMMAND SILO.



25X1

DIA STDY DST1010S-305-76 05 MAR 76 [REDACTED] SEC CLASS: 25 MSN [REDACTED] 54P ACCN: S07990 [REDACTED]

MISSILES, SS-17
WAC NO :
IDHS CODE:
BE/OBJ NO: [REDACTED]
EPF CAT : 40A
UR
NPIC NO :
COMIREX NO:

25X1

THE SS-17 IS A MEDIUM-SIZED, COLD-LAUNCHED ICBM SYSTEM WHICH HAS BEGUN REPLACING A PART OF THE OPERATIONALLY DEPLOYED SS-11 ICBMS.

DEPLOYMENT OF THE MISSILE IN THE TYPE III-H SILO BEGAN IN 1975 AT YEDROVO. THERE ARE INDICATIONS OF PROBABLE FUTURE ADDITIONAL DEPLOYMENT IN TYPE III-H SILOS AT KOSTROMA. THE NOMINAL DEPLOYMENT PROJECTION WHICH INCLUDES THESE TWO COMPLEXES IS ABOUT 200 MISSILES.

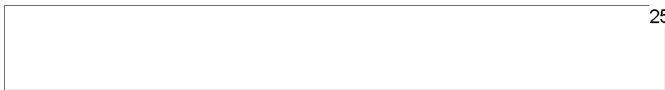
RECONFIGURATION OF THE TYPE III-D SS-11 SILO TO THE TYPE III-H SILO IS REQUIRED TO ACCOMMODATE THE SS-17 ICBM. IN ADDITION, THERE ARE MODIFICATIONS TO PROPELLANT AND WARHEAD HANDLING FACILITIES PREVIOUSLY USED BY THE SS-11.

FOR EACH GROUP OF 10 TYPE III-H SILOS AT A DEPLOYED SITE, A TYPE III-X LAUNCH CONTROL FACILITY (LCF) IS CONSTRUCTED IN THE SAME AREA AS THE GROUP CONTROL BUNKER FOR THE SS-11.

THE TYPE III-H SILO HARDNESS IS ESTIMATED AT ABOUT 10-17 MPA FOR SEVERE DAMAGE FROM A 1-MT WEAPON. THE TYPE III-X LCF HARDNESS IS ESTIMATED AT ABOUT 17-25.5 MPA FOR SEVERE DAMAGE FROM A 1-MT WEAPON.

THE COMMAND AND CONTROL STRUCTURE WILL BE SIMILAR TO THAT OF THE SS-11. REAL-TIME COMMUNICATION USING ACTIVE SATELLITES IS PROBABLY USED, IN ADDITION TO HF RADIO, CABLE, AND MICROWAVE RADIO RELAY. ALSO,

1616
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

ANTENNAS ARE PRESENT AT DEPLOYED SS-17 SITES WHICH MAY POSSIBLY INDICATE CAPABILITY NOW OR IN THE NEAR FUTURE FOR RADIO REMOTE BACKUP OF THE MAIN CABLE SYSTEM.
THIS STUDY SUPPLEMENTS DIA DST-10105-305-75, SS-17 ICBM SYSTEM.

DIA STDY DST18305-515-77 MAR 77 [] SEC CLASS: 25 MSN: 216P ACCN: S079901 25X1

MILITARY, GROUND FORCE WEAPONS R+D RESOURCES	CH	
WAC NO : [] BE/OBJ NO: []	NPIC NO :	
IDHS CODE: [] EPF CAT : 35G	COMIREX NO:	
CHICHIHAERH AMMUNITION PLANT 672 AREA D	CH 472200N 1235740E	
WAC NO : 0283 BE/OBJ NO: []	NPIC NO : - 28-E	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
CHICHIHAERH ARTILLERY TEST RANGE	CH 472335N 1240505E	
WAC NO : 0283 BE/OBJ NO: []	NPIC NO : - 28-S	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
MUTANCHIANG ORDNANCE TEST FAC LASER R+D POSS	CH 443950N 1293050E	
WAC NO : 0283 BE/OBJ NO: []	NPIC NO : - 50-02	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
PAICHENG WEAPONS TEST RANGE	CH 454417N 1223922E	
WAC NO : 0284 BE/OBJ NO: []	NPIC NO : - 5-E	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
HUAYIN WEAPONS TEST FACILITY EAST	CH 343545N 1100650E	
WAC NO : 0385 BE/OBJ NO: []	NPIC NO : - 12-E2	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
HSIAN BALLISTICS/SHELL TEST FACILITY	CH 342425N 1085720E	
WAC NO : 0384 BE/OBJ NO: []	NPIC NO : - 3-K1	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
HUAYIN WEAPONS TEST FACILITY WEST	CH 343345N 1095715E	
WAC NO : 0385 BE/OBJ NO: []	NPIC NO : - 12-D1	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
TAIYUAN WEAPONS TEST FACILITY	CH 380606N 1124351E	
WAC NO : 0385 BE/OBJ NO: []	NPIC NO : - 12-S1	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1

CHANGHSINTIEN ARMORED VEHICLE DEV PLANT 618	CH 394900N 1161025E	
WAC NO : 0381 BE/OBJ NO: []	NPIC NO : - 50-J8	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
HSINGCHENGPU ORDNANCE TEST RANGE	CH 420540N 1233040E	
WAC NO : 0290 BE/OBJ NO: []	NPIC NO : - 55-A	25X1
IDHS CODE: [] EPF CAT : 35G	COMIREX NO: []	25X1
NIENTZUSHAN AMMUNITION TEST AREA OLD SOUTH	CH 472818N 1225412E	

1617
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0284	BE/OBJ NO: []	NPIC NO : - 9-C	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
NIENTZUSHAN AMMUNITION TEST AREA NEW NORTH	CH 473602N 1225751E		
WAC NO : 0284	BE/OBJ NO: []	NPIC NO : - 9-D	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
PAOTOU ARMORED VEHICLE PLANT 617 TEST FAC	CH 404006N 1095423E		
WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 13-G	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
TUNGHO AMMUNITION PLANT WANPAOTUN SOUTH	CH 461619N 1282708E		
WAC NO : 0283	BE/OBJ NO: []	NPIC NO : - 202-B	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
NANTSAMU ARMS TEST FACILITY	CH 415654N 1242439E		
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 82-A1	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
HSINHSIEN ORDNANCE TEST FACILITY	CH 381849N 1124419E		
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 26-D2	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
TUNGHO ARMS PLANT FENGSHAN NORTH	CH 462021N 1282149E		
WAC NO : 0283	BE/OBJ NO: []	NPIC NO : - 226	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
YUNGSHIU MILITARY TEST RANGE	CH 290018N 1160753E		
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 103	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
CHIHSI TACTICAL ROCKET PLANT + TEST FACILITY	CH 300610N 1184130E		
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 13-A1	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
HUHSIEN MISSILE COMPONENTS R+D TEST AREA	CH 335831N 1084129E		
WAC NO : 0384	BE/OBJ NO: []	NPIC NO : - 8-B1	25X1
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []	25X1
TUNGKU ARMS PLANT + TEST RANGE 518	CH 283311N 1142718E		
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 109-B	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
CHUNGCHING ARMORED VEHICLE TEST AREA	CH 292150N 1062647E		
WAC NO : 0495	BE/OBJ NO: []	NPIC NO : - 10-U1	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
TUHAMACHING ARTILLERY TEST RANGE	CH 405054N 1093745E		
WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 1A	25X1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []	25X1
HSIANGTAN ARMORED VEHICLE REPAIR PLANT 627	CH 275220N 1125340E		
WAC NO : 0497	BE/OBJ NO: []	NPIC NO : - 10-F	25X1
IDHS CODE: []	EPF CAT : 35F	COMIREX NO: []	25X1
CHUNGCHING BALLISTICS TEST SITE NORTH	CH 293605N 1063355E		
WAC NO : 0495	BE/OBJ NO: []	NPIC NO : - 10-L1	25X1

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

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25X1

IDHS CODE: []	EPF CAT : 35G	COMIREX NO:
CHUHSIUNG AMMUNITION TEST RANGE		CH 250840N 1012609E
WAC NO : 0496	BE/OBJ NO: []	NPIC NO : - 44-B2
IDHS CODE: []	EPF CAT : 35G	COMIREX NO:
CHUNGCHING BALLISTICS TEST SITE SOUTH		CH 293050N 1063110E
WAC NO : 0495	BE/OBJ NO: []	NPIC NO : - 10-I
IDHS CODE: []	EPF CAT : 35G	COMIREX NO:
CHENHSI AMMUNITION PLANT 861 PUG		CH 280510N 1101252E
WAC NO : 0494	BE/OBJ NO: []	NPIC NO : - 33
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []
HANWANG ARTILLERY TEST RANGE CHISHANMIA		CH 313020N 1040710E
WAC NO : 0495	BE/OBJ NO: []	NPIC NO : - 112
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []
CHANGCHIAKOU ORDNANCE TEST RANGE		CH 404042N 1145620E
WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 2-J1
IDHS CODE: []	EPF CAT : 35G	COMIREX NO: []

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THE PURPOSE OF THIS STUDY IS TO PROVIDE AN ASSESSMENT OF THE RESOURCES--I.E., THE QUANTITY AND QUALITY OF TESTING FACILITIES--CURRENTLY DEVOTED TO DEVELOPMENTAL TESTING OF GROUND-FORCE WEAPON SYSTEMS BY THE PEOPLE'S REPUBLIC OF CHINA (PRC). THIS STUDY IS THE FOURTH IN A SERIES, UNDER DIA TASK PT-1830-10-75, ADDRESSING THE DEFINITION OF THE RESOURCES THAT THE PRC IS DEVOTING TO GROUND-FORCE WEAPON SUBSYSTEMS, SYSTEMS, AND TECHNOLOGIES.

THIS REPORT IS DIVIDED INTO FIVE SECTIONS, COVERING THE TYPE OF DATA AND ANALYTICAL METHODOLOGY UTILIZED; A COMPARATIVE ANALYSIS OF PRC/US/USSR RESEARCH AND DEVELOPMENT (R+D) AND TEST FACILITIES; ANALYSES OF MAJOR PRC PRODUCTION TEST FACILITIES; AND AN ASSESSMENT OF CURRENT AND PROBABLE FUTURE DESIGN STRATEGY AND INDICATORS.

THE STUDY SPECIFICALLY DESCRIBES, COMPARES, AND EVALUATES CERTAIN PRC TESTING FACILITY RESOURCES FOR THE FOLLOWING GROUND-FORCE SYSTEMS CATEGORIES: ARMORED FIGHTING VEHICLES, ANTITANK WEAPONS, TACTICAL DIRECT-AND INDIRECT-FIRE WEAPONS, AIR DEFENSE SYSTEMS, CHEMICAL WARFARE, GAS-DYNAMIC (HIGH-POWER) LASERS, AND SMALL ARMS. IN ORDER TO MAKE THE ANALYSIS OF PRC FACILITIES MORE BENEFICIAL TO THE US READER, THE AUTHOR HAS INCLUDED SOME COMPARISONS OF SELECTED PRC, US, AND SOVIET INSTALLATIONS.

NPIC MEMO

[] 20 APR 77 []

SEC CLASS: 14B MSN: []

9P

ACCN: 5079903

25X1

LAGUNAKA RADIO RELAY STATION		UR 550845N 0752525E
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 53
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:
KURGAN RADIO RELAY/TV/FM BROADCASTING CENTER		UR 552520N 0651632E
WAC NO : 0164	BE/OBJ NO: []	NPIC NO : - 9-A2
IDHS CODE: []	EPF CAT : 25B	COMIREX NO: []
KURGAN RADIO RELAY/TV/FM BROADCASTING CENTER		UR 552520N 0651632E
WAC NO : 0164	BE/OBJ NO: []	NPIC NO : - 9-A2
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []

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

1619

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KURGAN RADIO RELAY STATION	WAC NO : 0164	BE/OBJ NO: []	UR 552630N 0651940E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 9-A4	25X1
SHMAKOVO RADIO RELAY STATION	WAC NO : 0164	BE/OBJ NO: []	COMIREX NO: []	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 554840N 0652200E	
IKOVKA RADIO RELAY STATION	WAC NO : 0164	BE/OBJ NO: []	NPIC NO : - 90	25X1
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
PIMENOVKA RADIO RELAY STATION	WAC NO : 0164	BE/OBJ NO: []	UR 553650N 0645630E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 82	25X1
OMSK RADIO RELAY/TV/FM BROADCAST CENTER	WAC NO : 0163	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 551945N 0645417E	
OMSK RADIO RELAY/TV/FM BROADCAST CENTER	WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 9-B	25X1
	IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
SHKALNIKI RADIO RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	UR 550120N 0731826E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 5-I2	25X1
IRTYSH RADIO RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 550120N 0731826E	
KALACHINSK RADIO RELAY STATION NE	WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 5-I2	25X1
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
ZVONAREV KUT RADIO RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	UR 543600N 0740040E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 9	25X1
NEMIROVKA RADIO RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 543000N 0742130E	
VOLCHANKA RADIO RELAY STATION NORTH	WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 10	25X1
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
USOVKA RADIO RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	UR 550450N 0743610E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 62	25X1
ISIL KUL RADIO RELAY + TV RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 543835N 0731800E	
ISIL KUL RADIO RELAY + TV RELAY STATION	WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 15	25X1
	IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
			UR 545756N 0735221E	
			NPIC NO : - 5-01	25X1
			COMIREX NO:	25X1
			UR 550040N 0715500E	
			NPIC NO : - 64	25X1
			COMIREX NO:	25X1
			UR 545430N 0723830E	
			NPIC NO : - 22	25X1
			COMIREX NO:	25X1
			UR 545330N 0711330E	
			NPIC NO : - 26-A	25X1
			COMIREX NO:	25X1
			UR 545330N 0711330E	

25X1

1620
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 26-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BULAYEVO RADIO RELAY + TV RELAY STATION		UR 545120N 0702600E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 47	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
BULAYEVO RADIO RELAY + TV RELAY STATION		UR 545120N 0702600E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 47	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TOKUSHI RADIO RELAY STATION		UR 545120N 0694400E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 51	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BOGOLYUBOVO RADIO RELAY STATION		UR 543715N 0684230E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 67	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
PETROPAVLOVSK RADIO RELAY STATION		UR 545302N 0690846E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 7-A3	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
PETROPAVLOVSK RADIO RELAY/TV/FM BROADCAST CTR		UR 545243N 0690655E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 7-B1	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
SOKOLOVKA RADIO RELAY STATION		UR 550445N 0691500E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 50	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
PETROPAVLOVSK RADIO RELAY/TV/FM BROADCAST CTR		UR 545243N 0690655E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 7-B1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
VARGASHI RADIO RELAY STATION		UR 552320N 0654955E	
WAC NO : 0164	BE/OBJ NO: []	NPIC NO : - 63	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
LEBYAZHYE RADIO RELAY STATION		UR 551547N 0663014E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 48	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1.1
MAKUSHINO RADIO RELAY STATION		UR 551340N 0671445E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 24-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
PETUKHOV RADIO RELAY STATION		UR 550435N 0675535E	
WAC NO : 0163	BE/OBJ NO: []	NPIC NO : - 49	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
DUPLENSKAYA RADIO RELAY STATION WNW		UR 550525N 0813510E	
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 55	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
NOVOSIBIRSK RADIO RELAY/TV/FM BROADCAST CTR		UR 545852N 0825250E	
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 8-A3	25X1

1621

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
KOCHENEVO RADIO RELAY STATION		UR 550430N 0821300E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 5	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
NOVOSIBIRSK RADIO RELAY/TV/FM BROADCAST CTR		UR 545852N 0825250E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 8-A3	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KOZHURLA RADIO RELAY STATION NW		UR 552045N 0790110E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 62	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TEBISSKAYA RADIO RELAY STATION		UR 552250N 0773040E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 63	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
NOVOSIBIRSK RADIO RELAY STATION SW		UR 545637N 0824805E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 8-C1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
AMBA RADIO RELAY STATION		UR 552840N 0824520E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 10	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
MOSHKOVO RADIO RELAY STATION		UR 551730N 0833520E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 15	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KUYBYSHEV RADIO RELAY + TV BROADCASTING STA		UR 552800N 0781820E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 32-A	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
KUYBYSHEV RADIO RELAY + TV BROADCASTING STA		UR 552800N 0781820E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 32-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TATARSK RADIO RELAY STATION SE		UR 551216N 0760254E	25X1
WAC NO : 0162	BE/OBJ NO: []	NPIC NO : - 11-D1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BOLOTNOYE RADIO RELAY STATION		UR 553840N 0841750E	25X1
WAC NO : 0161	BE/OBJ NO: []	NPIC NO : - 7-B1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
LITVINOVO RADIO RELAY STATION SOUTH		UR 554920N 0852020E	25X1
WAC NO : 0161	BE/OBJ NO: []	NPIC NO : - 59	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
ANZHERO SUDZHENSK RADIO RELAY + TV RELAY STA		UR 560514N 0855807E	25X1
WAC NO : 0158	BE/OBJ NO: []	NPIC NO : - 7-B	25X1.1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
ANZHERO SUDZHENSK RADIO RELAY + TV RELAY STA		UR 560514N 0855807E	25X1
WAC NO : 0158	BE/OBJ NO: []	NPIC NO : - 7-B	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

1622
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25A1

CHANY RADIO RELAY + TV RELAY STATION SE	UR	551305N 0764900E	
WAC NO : 0162	BE/OBJ NO:	NPIC NO : - 48	25X1
IDHS CODE:	EPF CAT : 25B	COMIREX NO:	25X1
CHANY RADIO RELAY + TV RELAY STATION SE	UR	551305N 0764900E	
WAC NO : 0162	BE/OBJ NO:	NPIC NO : - 48	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
CHULYM RADIO RELAY STATION SW	UR	550430N 0805120E	
WAC NO : 0162	BE/OBJ NO:	NPIC NO : - 4-A1	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
IVERKA RADIO RELAY STATION	UR	561000N 0865500E	
WAC NO : 0158	BE/OBJ NO:	NPIC NO : - 23	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
KRASNYE ORLY RADIO RELAY STATION	UR	561100N 0871400E	
WAC NO : 0158	BE/OBJ NO:	NPIC NO : - 22	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
KLYUCHEVAYA RADIO RELAY STATION	UR	561025N 0882045E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 48	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
UBINSKOYE RADIO RELAY STATION	UR	551820N 0794040E	
WAC NO : 0162	BE/OBJ NO:	NPIC NO : - 45	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
KARGAT RADIO RELAY STATION NORTH	UR	551220N 0801705E	
WAC NO : 0150	BE/OBJ NO:	NPIC NO : - 56	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
NOVOCHERNORECHENSKIY RADIO RELAY STATION	UR	561618N 0910635E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 21	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
ZELEDEYEVO RADIO RELAY STATION	UR	560640N 0915900E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 51	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
SNEZHNI TSA RADIO RELAY STATION NW	UR	560630N 0922115E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 46	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
AKIMOVO ANNENKA RADIO RELAY STATION	UR	560500N 0884830E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 52	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
BOGOTOL RADIO RELAY STATION	UR	561315N 0893245E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 20-A1	25X1
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	25X1
ACHINSK RADIO RELAY + TV RELAY STATION	UR	561940N 0903000E	
WAC NO : 0159	BE/OBJ NO:	NPIC NO : - 1-G	25X1
IDHS CODE:	EPF CAT : 25B	COMIREX NO:	25X1
ACHINSK RADIO RELAY + TV RELAY STATION	UR	561940N 0903000E	

1623

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0159 BE/OBJ NO: [] NPIC NO : - 1-G
 IDHS CODE: [] EPF CAT : 25D COMIREX NO:
 MAMLYUTKA RADIO RELAY STATION UR 545740N 0683155E
 WAC NO : 0163 BE/OBJ NO: [] NPIC NO : - 46
 IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1
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25X1

THIS MEMO REVIEWS CURRENT KEYHOLE PHOTOGRAPHY TO DETERMINE THE STATUS OF RADIO RELAY STATIONS BETWEEN KURGAN AND KRASNOYARSK. ANTENNA TYPE, AZIMUTH, LOCATION, AND RELATED BUILDINGS AND EQUIPMENT ARE CITED.*

NPIC MEMO [] 26 APR 77 [] SEC CLASS: 13 MSN: [] 7P ACCN: S0799025X1

ELECTRONICS, ECM JAMMER NEW POSS UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 25 COMIREX NO:
 VORONEZH AIRFIELD SW AW RADAR FACILITY O/B UR 513616N 0390630E
 WAC NO : 0234 BE/OBJ NO: [] NPIC NO : - 46-L1
 IDHS CODE: [] EPF CAT : 25H COMIREX NO: []

25X1
25X1

THIS MEMORANDUM PROVIDES THE ELECTRONIC ORDER-OF-BATTLE OBSERVED AT VORONEZH AIRFIELD SW AW RADAR FACILITY [] A NEW POSSIBLE ECM JAMMER WAS IN THE SOUTHWEST PART OF THE FACILITY. DIMENSIONS ARE GIVEN.*

25X1

NPIC IIR IIR012-77 21 APR 77 [] SEC CLASS: 14A MSN: [] 2P ACCN: S0799025X1

TARABULUS MILITARY STORAGE AREA SE SS-1C TEL LY 324945N 0132026E
 WAC NO : 0423 BE/OBJ NO: [] NPIC NO : - 10-B1
 IDHS CODE: [] EPF CAT : 40B COMIREX NO:
 TARABULUS MILITARY STORAGE AREA SE SS-1C TEL LY 324945N 0132026E
 WAC NO : 0423 BE/OBJ NO: [] NPIC NO : - 10-B1
 IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1
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25X1

NPIC IIR IIR015-77 25 APR 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: S0799025X1

SHIPS, KOLPINO A CLASS MSF UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 75D COMIREX NO:
 KOLPINO SHIPYARD MIDDLE NEVA KOLPINO A U/C UR 594716N 0303754E
 WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-J1
 IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1
25X1

NPIC IIR IIR014-77 22 APR 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S0799025X1

SHIPS, 445E CLASS DD NEW PROB U/C UR

1624
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
NIKOLAYEV SHIPYARD NORTHERN	61 445E CL DD U/C	UR 465840N 0320019E
WAC NO : 0250	BE/OBJ NO:	NPIC NO : - 46-C
IDHS CODE:	EPF CAT : 75E	COMIREX NO:

25X1
25X1
25X1

NPIC PIR	PIR003-77	APR 77	SEC CLASS: 14D MSN:	86P	ACCN: 5079909
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25X1

MISSILES, AA-7 SHIPPING CONTAINER	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 40J		COMIREX NO:
MISSILES, AA-7 WING SHIPPING CONTAINER	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 40J		COMIREX NO:
MISSILES, AS-7 SHIPPING CONTAINER	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 40J		COMIREX NO:
MISSILES, AS-9 SHIPPING CONTAINER	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 40J		COMIREX NO:
MISSILES, SA-8 SHIPPING CONTAINER	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 40C		COMIREX NO:
AIRCRAFT, SHIPPING CONTAINERS U/I	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 05D		COMIREX NO:
MISSILES, SHIPPING CONTAINERS U/I	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 40I		COMIREX NO:
AIRCRAFT, TV-2-117A HELICOPTER ENG SHPG CONT	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 05D		COMIREX NO:
AIRCRAFT, NK-8 AIRCRAFT ENGINE SHIPPING CONT	WAC NO :	BE/OBJ NO:	UR	NPIC NO :
	IDHS CODE:	EPF CAT : 05D		COMIREX NO:
AIRCRAFT, NK-144 AIRCRAFT ENG SHPG CONT PROB	WAC NO :	BE/OBJ NO:	UR	NPIC NO :

25X1

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1625
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, D-36 AIRCRAFT ENGINE SHPG CONT PROB UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO: 25X1
AIRCRAFT, D-25 HELICOPTER ENGINE SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, D-30K AIRCRAFT ENGINE SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, SHIPPING CONTAINER PROB U/I UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, HIND MI-24 FUSELAGE SHPG CONT MODIF UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, HOODLUM FUSELAGE SHPG CONT MODIF UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, HIND A MI-24 FUSELAGE SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER VENTRAL FUEL TANK SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, FENCER A WING FUEL TANK SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER WING FUEL TANK SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER FUSELAGE SHPG CONT TYPE C UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER MIG-23 COMPONENT SHPG CONT UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO:
MISSILES, SS-N-14 SHIPPING CONTAINER UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 40G COMIREX NO:
MISSILES, SA-N-4 SHIPPING CONTAINER UR
WAC NO : BE/OBJ NO: NPIC NO : 25X1
IDHS CODE: EPF CAT : 40G COMIREX NO:

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1626

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AIRCRAFT, FISHBED FUSELAGE SHPG CONT TYPE D	UR
WAC NO :	BE/OBJ NO: [] NPIC NO :
IDHS CODE:	EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER FUSELAGE SHPG CONT TYPE A	UR
WAC NO :	BE/OBJ NO: [] NPIC NO :
IDHS CODE:	EPF CAT : 05D COMIREX NO:
AIRCRAFT, FLOGGER FUSELAGE SHPG CONT TYPE B	UR
WAC NO :	BE/OBJ NO: [] NPIC NO :
IDHS CODE:	EPF CAT : 05D COMIREX NO:

25X1

25X1

25X1

THIS IS THE FIFTH PART OF A CONTINUING NPIC STUDY ON SHIPPING CONTAINERS. PART ONE WAS PUBLISHED AS SOVIET MISSILE AND AIRCRAFT SHIPPING CONTAINERS, USSR, AUG 70 (TOP SECRET RUFF), PART TWO AS SOVIET MISSILE AND AIRCRAFT SHIPPING CONTAINERS, MAR 71 (TOP SECRET RUFF), PART THREE AS SOVIET MISSILE AND AIRCRAFT SHIPPING CONTAINERS, APR 73 (TOP SECRET RUFF), AND PART FOUR AS SOVIET MISSILE AND AIRCRAFT SHIPPING CONTAINERS, FEB 74 (TOP SECRET RUFF).

25X1

CIA BIIR RCS13-0004-77 APR 77 SEC CLASS: 05C MSN: 6P ACCN: S079910

JONAVA NITROGEN FERTILIZER PLANT	UR	550502N 0242001E
WAC NO : 0168	BE/OBJ NO: []	NPIC NO : - 136-B
IDHS CODE: []	EPF CAT : 30F	COMIREX NO:

25X1

25X1

JONAVA NITROGEN FERTILIZER PLANT USES NATURAL GAS FEEDSTOCK FROM THE DASHAVA GAS FIELDS TO PRODUCE AQUEOUS AMMONIA, NITROGEN AND COMPOUND FERTILIZERS, METHANOL, DRY ICE, AND REPORTEDLY RESINS. ITS MAIN PRODUCTS INCLUDE AMMONIA, METHANOL, NITRIC ACID, UREA, AMMONIUM NITRATE AND NITROGEN-PHOSPHATE-POTASSIUM (NPK) FERTILIZERS, AND POSSIBLY UREA AND MELAMINE RESINS.

CONSTRUCTION OF THE FERTILIZER PLANT BEGAN IN 1962, AND IT HAS BEEN UNDERGOING EXPANSION EVER SINCE. PORTIONS OF THE PLANT WERE FIRST OBSERVED OPERATING IN 1966. DURING THE PERIOD BETWEEN 1971 AND 1975, AN AMMONIUM NITRATE PLANT AND A NITRIC ACID PLANT WERE BUILT AND CONSTRUCTION WAS BEGUN ON AN IMPORTED AMMONIA PLANT AND AN NPK FERTILIZER PLANT. THESE PLANTS WILL PROBABLY BE COMPLETED BY EARLY 1977. AN APPARENT EXCESS AMMONIA CAPACITY AND AN ADJACENT CONSTRUCTION SITE SUGGEST THAT ADDITIONAL FERTILIZER FACILITIES MAY BE ADDED TO THE PLANT.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE FERTILIZER PLANT AND A TABLE SUMMARIZING ITS PRODUCTION AREAS AND THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

25X1

1627
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC SR SR021-77 APR 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 3P ACCN: S07991225X1

PECHORA PHASED-ARRAY RADAR FACILITY U/C [REDACTED] UR 651230N 0571720E
WAC NO : 0093 BE/OBJ NO: [REDACTED] NPIC NO : - 29-A
IDHS CODE: [REDACTED] EPF CAT : 25A COMIREX NO: [REDACTED]

25X1
25X1

CONTINUING CONSTRUCTION ACTIVITY OCCURRING [REDACTED] WAS SEEN AT THE PECHORA BISTATIC,
PHASED-ARRAY RADAR FACILITY [REDACTED] THE STATUS OF THE FACILITY WAS LAST REPORTED IN A
PREVIOUS NPIC SUMMARY REPORT, [REDACTED] DIMENSIONS OF COLUMNS FOR THE TRANSMITTER AND RECEIVER ARE
GIVEN.*

25X1
25X1
25X1

NPIC BIIR RCA09-0005-77 APR 77 [REDACTED] SEC CLASS: 14 MSN [REDACTED] 6P ACCN: S07991325X1

MOSKVA AIRCRAFT COMPONENTS PLANT 451 UR 554820N 0373450E
WAC NO : 0167 BE/OBJ NO: [REDACTED] NPIC NO : - 52-R
IDHS CODE: [REDACTED] EPF CAT : 05G COMIREX NO: [REDACTED]

25X1
25X1

MOSKVA AIRCRAFT COMPONENTS PLANT 451 IS ONE OF SEVERAL PLANTS WITHIN THE MOSCOW AREA INVOLVED IN THE
PRODUCTION OF COMPONENTS FOR THE SOVIET AEROSPACE INDUSTRY. IN SEPTEMBER 1976, PLANT 451 CONTAINED A TOTAL
OF 47 COMPLETED BUILDINGS AND STRUCTURES WITH APPROXIMATELY [REDACTED] THE
PLANT CONSISTED OF TWO SEPARATELY SECURED AREAS COVERING A TOTAL AREA OF 6.5 HECTARES. A PROBABLE POL
STORAGE AREA, OF APPROXIMATELY 0.2 HECTARES, IS ADJACENT TO THE NORTHEASTERN SIDE OF THE PLANT AREA. THE
PLANT HOUSES SEVERAL DESIGN BUREAUS.

25X1

PLANT 451 IS INVOLVED IN THE PRODUCTION OF GENERATORS, PUMPS, AND VARIOUS ELECTRICAL COMPONENTS FOR THE
SOVIET AEROSPACE INDUSTRY. AN ANALYSIS OF PLANT FACILITIES HAS NOT REVEALED THE FUNCTION/TYPE OF
COMPONENTS PRODUCED. SHIPPING CONTAINERS HAVE NOT BEEN OBSERVED IN LARGE QUANTITIES AT THE PLANT. THOSE
THAT HAVE BEEN OBSERVED ARE NOT KNOWN TO BE RELATED TO A SPECIFIC COMPONENT OR SYSTEM.

25X1

1628
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Large Redacted Area]

25X1
25X1
25X1
25X1

DIA IIM 5B3-52721-77 20 APR 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: 5079915 25X1

KINEL CHERKASY AIRFIELD POL STORAGE CAPACITY UR 532805N 0513356E 25X1
WAC NO : 0165 BE/OBJ NO: [Redacted] NPIC NO : - 16 25X1

1629
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

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

25X1

DIA IIM 5B3-52722-77 20 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799125X1

KISHINEV AIRFIELD SE POL STORAGE CAPACITY UR 465555N 0285618E
WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 39-D
IDHS CODE: [] EPF CAT : 05I COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52723-77 20 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799125X1

KLETINO AIRFIELD POL STORAGE CAPACITY UR 564752N 0371952E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 18-B
IDHS CODE: [] EPF CAT : 05I COMIREX NO:

25X1
25X1

DIA IIM 5B3-52724-77 20 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799125X1

KARAGANDA AIRFIELD SE POL STORAGE CAPACITY UR 494755N 0730831E
WAC NO : 0238 BE/OBJ NO: [] NPIC NO : - 5-A
IDHS CODE: [] EPF CAT : 05I COMIREX NO:

25X1
25X1

DIA IIM 5B3-52749-77 20 APR 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S0799125X1

CHEGDOMYN AMMUNITION STORAGE AREA DA2 UR 510540N 1325045E
WAC NO : 0203 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B3-52779-77 20 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799225X1

SOVETSKIY AIRFIELD POL STORAGE CAPACITY UR 452124N 0345636E
WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 68
IDHS CODE: [] EPF CAT : 05I COMIREX NO:

25X1
25X1

NPIC IIR IIR017-77 28 APR 77 [] SEC CLASS: 14E MSN: [] 2P

ACCN: S0799225X1

IHA RI MILITARY BKS SOUTH MSL-SHAPED OBJ U/I KN 400000N 1251410E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 180-D
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
IHA RI MILITARY BKS SOUTH MSL-SHAPED OBJ U/I KN 400000N 1251410E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 180-D
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1
25X1

25X1
25X1

25X1

1630
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

CIA REPT IS10002J-77 APR 77 SEC CLASS: 24 MSN: 58P ACCN: S079956

25X1

ANDREYEVO RADAR R+D TEST FACILITY		UR	555330N 0411215E
WAC NO	: 0166	BE/OBJ NO:	NPIC NO : - 135-A
IDHS CODE:		EPF CAT : 25E	COMIREX NO:
ARALSK R+D TROPOSCATTER + RADCOM RECEIVER STA		UR	464617N 0612048E
WAC NO	: 0246	BE/OBJ NO:	NPIC NO : - 2-D

25X1

25X1

25X1

25X1

1637
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 25E	COMIREX NO:
ARALSK R+D TROPOSCATTER + RADCOM RECEIVER STA	WAC NO : 0246	UR 464617N 0612048E
	BE/OBJ NO: []	NPIC NO : - 2-D
	IDHS CODE: []	COMIREX NO:
BELOUSOVO ELECTRONICS TEST/TRAINING FAC PROB	EPF CAT : 25D	UR 550430N 0364200E
	WAC NO : 0167	NPIC NO : - 101-B
	BE/OBJ NO: []	COMIREX NO:
FEODOSIYA NAVAL MTC ELECTRONICS R+D FACILITY	EPF CAT : 25E	UR 445130N 0350815E
	WAC NO : 0249	NPIC NO : - 65-A7
	BE/OBJ NO: []	COMIREX NO:
KHIMKI ELECTRONICS R+D FACILITY	EPF CAT : 25C	UR 555441N 0372556E
	WAC NO : 0167	NPIC NO : - 4B-A
	BE/OBJ NO: []	COMIREX NO:
LENINGRAD TROPOSCATTER TEST STATION KOLTIUSHI	EPF CAT : 25E	UR 595610N 0304010E
	WAC NO : 0153	NPIC NO : - 199
	BE/OBJ NO: []	COMIREX NO:
KRASNOYARSK RADAR TEST FACILITY PROB	EPF CAT : 25E	UR 560340N 0925230E
	WAC NO : 0159	NPIC NO : - 7-N2
	BE/OBJ NO: []	COMIREX NO:
GORKIY ELECTRONICS RESEARCH FACILITY	EPF CAT : 25E	UR 561735N 0434510E
	WAC NO : 0154	NPIC NO : - 14-A
	BE/OBJ NO: []	COMIREX NO:
GORKIY RADAR PLANT SORMOVO TEST/CHECKOUT FAC	EPF CAT : 25E	UR 562040N 0434918E
	WAC NO : 0154	NPIC NO : - 13-C1
	BE/OBJ NO: []	COMIREX NO:
LENINGRAD ELECTRONICS FACILITY	EPF CAT : 25E	UR 595613N 0301341E
	WAC NO : 0153	NPIC NO : - 36-B3
	BE/OBJ NO: []	COMIREX NO:
LUKHOVITSY RADAR TEST FACILITY	EPF CAT : 25	UR 545455N 0390300E
	WAC NO : 0166	NPIC NO :
	BE/OBJ NO: []	COMIREX NO:
MOSKVA ELECTRONICS RESEARCH FACILITY	EPF CAT : 25E	UR 553340N 0373500E
	WAC NO : 0167	NPIC NO :
	BE/OBJ NO: []	COMIREX NO:
KUNTSEVO ANTENNA TEST/CHECKOUT FACILITY	EPF CAT : 25E	UR 554350N 0372300E
	WAC NO : 0167	NPIC NO :
	BE/OBJ NO: []	COMIREX NO:
GORKIY/SORMOVO RADAR ASSEMBLY + TEST AREA	EPF CAT : 25E	UR 561925N 0434842E
	WAC NO : 0154	NPIC NO : - 13-F1
	BE/OBJ NO: []	COMIREX NO:
PRAVDINSK RADAR R+D FACILITY	EPF CAT : 25E	UR 562740N 0432130E
	WAC NO : 0154	NPIC NO : - 47-C2
	BE/OBJ NO: []	COMIREX NO:
	IDHS CODE: []	
	EPF CAT : 25E	

25X1

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1638

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SIVERSKIY ELECTRONICS FACILITY PROB	UR	592645N 0300710E	
WAC NO : 0153	BE/OBJ NO:	NPIC NO : - 70-A1	25X1
IDHS CODE:	EPF CAT : 25	COMIREX NO:	25X1
TYURATAM/TARTUGAY MTC RADAR TEST FACIL	SUSP	UR	442953N 0661406E
WAC NO : 0246	BE/OBJ NO:	NPIC NO : - 30	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
MYTISHCHI ELECTRONICS RESEARCH COMPLEX		UR	555535N 0374431E
WAC NO : 0167	BE/OBJ NO:	NPIC NO : - 61-A	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
NOVOSIBIRSK RADAR TEST FACILITY SW		UR	544650N 0823215E
WAC NO : 0162	BE/OBJ NO:	NPIC NO : - 58-A	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
ULYANOVSK RADAR CALIBRATION/CHECKOUT FACIL		UR	542420N 0481906E
WAC NO : 0165	BE/OBJ NO:	NPIC NO : - 31-D3	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
VOLOKOLAMSK RADAR R+D FACILITY		UR	560110N 0360730E
WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 165	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
VORONEZH AIRFIELD SW AW RADAR FACILITY		UR	513616N 0390630E
WAC NO : 0234	BE/OBJ NO:	NPIC NO : - 46-L1	25X1
IDHS CODE:	EPF CAT : 25H	COMIREX NO:	25X1
ELECTRONICS, RADAR R+D/CHECKOUT/TEST FACILS		UR	
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	
NOVOSIBIRSK RADAR R+D TEST FACILITY		UR	545600N 0824800E
WAC NO : 0162	BE/OBJ NO:	NPIC NO : - A-C2	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
IVANKOVO ELECTRONICS R+D FACILITY PROB		UR	564350N 0370600E
WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 18-E1	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1
KALININ RADAR TEST FACILITY		UR	565300N 0355600E
WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 20-11	25X1
IDHS CODE:	EPF CAT : 25E	COMIREX NO:	25X1

THIS REPORT PRESENTS A COMPILATION OF IN-DEPTH ANALYSIS OF 25 OF THE MORE IMPORTANT SOVIET RADAR R+D, CHECKOUT, AND TEST FACILITIES. THESE INSTALLATIONS HAVE EITHER NEVER BEEN REPORTED OR HAVE BEEN REPORTED INDIVIDUALLY. THIS STUDY WAS DONE TO PROVIDE, FOR THE FIRST TIME, A PHOTOGRAPHIC OVERVIEW OF SOVIET INSTALLATIONS THAT ARE INVOLVED IN RADAR DEVELOPMENT. SUCH INFORMATION SHOULD IMPROVE THE INTELLIGENCE COMMUNITY'S CAPABILITY TO EFFECTIVELY MONITOR SOVIET RADAR DEVELOPMENTS ON PHOTOGRAPHY. AND IT SHOULD PROVIDE THE BASIC INFORMATION THAT IS NEEDED TO ASSIST IN SELECTING TARGETS FOR PRODUCTIVE SIGINT COLLECTION.

LARGELY CONCENTRATED IN THE WESTERN USSR, THE FACILITIES DISCUSSED IN THIS REPORT RANGE FROM SMALL TEST COMPOUNDS TO ELABORATE INSTALLATIONS ENCOMPASSING SEVERAL SQUARE MILES. EACH INSTALLATION FALLS INTO ONE

1639

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

OF THE FOUR FOLLOWING BROAD CATEGORIES:

1. THOSE AT WHICH PROTOTYPE RADARS, RADAR SUBSYSTEMS, OR ANTENNAS ARE TESTED AND EVALUATED FOR FUTURE APPLICATIONS.
2. THOSE AT WHICH CURRENT RADAR SYSTEMS AND EQUIPMENT ARE CHECKED AND CALIBRATED PRIOR TO DEPLOYMENT.
3. THOSE AT WHICH VARIOUS TYPES OF RADARS OR INDIVIDUAL ELEMENTS OF RADAR SYSTEMS ARE USED FOR OPERATIONAL SUPPORT OF OTHER R+D PROGRAMS.
4. THOSE AT WHICH THE CAPABILITIES AND VULNERABILITIES OF ONE OR MORE SPECIFIC RADAR SYSTEMS ARE STUDIED AND EVALUATED.

NOT INCLUDED IN THIS REPORT ARE THE R+D RADAR COMPLEXES AT THE SARY SHAGAN OR KAPUSTIN YAR MISSILE TEST CENTERS OR THOSE FACILITIES WHICH ARE INVOLVED SOLELY IN RADIO ASTRONOMICAL RESEARCH.

THIS REPORT PROVIDES A DESCRIPTION AND PHOTOGRAPH(S) OF THE 25 INSTALLATIONS AND DISCUSSES THE SCOPE OF ACTIVITIES AT EACH. THE CUTOFF DATE FOR INFORMATION IN THIS REPORT IS SEPTEMBER 1976.

NAVY BIIR RRG23-0002-77 MAR 77 [] SEC CLASS: 25B MSN: [] 65P ACCN: S0799525X1

SHIPS, SUBMERSIBLES NAVAL/NAVAL ASSOC POSS UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 75D COMIREX NO:

THIS REPORT PROVIDES DETAILED, IMAGERY-DERIVED ANALYSIS OF SOVIET NAVAL AND POSSIBLE NAVAL ASSOCIATED SUBMERSIBLES. IT SUPPLEMENTS AND UPDATES THE INFORMATION PROVIDED IN THE NAVAL RECONNAISSANCE AND TECHNICAL SUPPORT CENTER REPORT SOVIET SUBMERSIBLES DATED NOVEMBER 1971 []

BASED ON ALL-SOURCE PHOTOGRAPHY AND ATTACHE SIGHTINGS AND SKETCHES, THE REPORT INCLUDES PROVISIONAL SCALE DRAWINGS, CHRONOLOGY TABLE, TABLE OF SIGHTINGS AND SELECTIVE IDENTIFICATION PHOTOGRAPHS OF SOVIET NAVAL AND POTENTIAL NAVAL SUBMERSIBLES. 25X1

NPIC BIIR RCA09-0006-77 APR 77 [] SEC CLASS: 25B MSN: [] 7P ACCN: S0799525X1

MOSKVA AIRCRAFT COMPONENTS PLANT KUNTSEVO 65 UR 554333N 0372353E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 36-A1 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

MOSKVA AIRCRAFT COMPONENTS PLANT KUNTSEVO 65 COVERS AN AREA OF ABOUT 50 HECTARES. THE SECURED, RAIL-SERVED INSTALLATION CONTAINS 70 BUILDINGS WITH A TOTAL FLOORSPACE OF APPROXIMATELY 214,382 SQUARE METERS. A POSSIBLE ASSOCIATED AREA OF APPROXIMATELY 27 HECTARES IS IMMEDIATELY WEST OF PLANT 65. THE MAJOR BUILDINGS IN THIS AREA HAVE A TOTAL FLOORSPACE OF APPROXIMATELY 46,632 SQUARE METERS.

THE 45 MAJOR BUILDINGS AT THE PLANT CONTAIN APPROXIMATELY 207,892 SQUARE METERS OR ABOUT 97 PERCENT OF THE TOTAL FLOORSPACE. THE NUMBERS AND TYPES OF MAJOR BUILDINGS ARE AS FOLLOWS: TWO ASSEMBLY/SHOP BUILDINGS, TWO FORGE/FOUNDRY BUILDINGS, 19 SHOP BUILDINGS, THREE HEAT TREATMENT/PROCESSING BUILDINGS, FIVE ADMINISTRATION/ENGINEERING BUILDINGS, TWO SHOP/STORAGE BUILDINGS, SEVEN TRANSSHIPMENT/STORAGE BUILDINGS, AND FIVE SUPPORT AND UTILITY BUILDINGS. TABLE 1 GIVES A DETAILED DESCRIPTION OF THESE BUILDINGS, INCLUDING DIMENSIONS AND CHRONOLOGICAL INFORMATION.

THE 25 SMALL STORAGE/SUPPORT BUILDINGS AT THE PLANT ACCOUNT FOR APPROXIMATELY 6,490 SQUARE METERS OF

1640
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

FLOORSPACE. THE 17 MAJOR BUILDINGS IN THE POSSIBLE ASSOCIATED AREA WEST OF PLANT 65 CONTAIN APPROXIMATELY 46,632 SQUARE METERS OF FLOORSPACE. THE POSSIBLE ASSOCIATED AREA WAS NOT INCLUDED IN THE TOTAL FLOORSPACE COUNT FOR PLANT 65.

NPIC IIR IIR019-77 29 APR 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: S079959 25X1

DURRES PORT FACILITIES DEFENSIVE POSITIONS	AL 411833N 0192716E	
WAC NO : 0322	BE/OBJ NO: []	NPIC NO : - 20-A 25X1
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: 25X1
DURRES PORT FACILITIES DEFENSIVE POSITIONS	AL 411833N 0192716E	
WAC NO : 0322	BE/OBJ NO: []	NPIC NO : - 20-A 25X1
IDHS CODE: []	EPF CAT : 35	COMIREX NO: 25X1

A LARGE CONCENTRATION OF DEFENSIVE POSITIONS HAS BEEN IDENTIFIED IN AND AROUND THE PORT OF DURRES, ALBANIA. [] 25X1

DIA IIM 583-52740-77 28 APR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079961 25X1

SURGUT AIRFIELD NORTH AMMO/POL STORAGE PTNTL	UR 612037N 0732435E	
WAC NO : 0099	BE/OBJ NO: []	NPIC NO : - 2-B1 25X1
IDHS CODE: []	EPF CAT : 05I	COMIREX NO: 25X1

DIA IIM 583-52693-77 28 APR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079962 25X1

1641
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

POLOTSK AIRFIELD NW POL STORAGE CAPACITY

WAC NO : 0168 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05I

UR 553640N 0284025E
NPIC NO : - 102-A1
COMIREX NO:

25X1
25X1

DIA IIM 5B3-52688C-77 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799625X1

MAGNITOGORSK AIRFIELD WEST POL STORAGE CPCTY

WAC NO : 0164 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05I

UR 532318N 0584513E
NPIC NO : - 52
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52782-77 29 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799625X1

SIMFEROPOL AIRFIELD POL STORAGE CAPACITY

WAC NO : 0250 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05I

UR 445458N 0340335E
NPIC NO : - 65-A
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52777-77 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799625X1

VORONEZH/CHERTOVITSKOYE AIRFIELD POL CAPACITY

WAC NO : 0234 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05I

UR 514850N 0391330E
NPIC NO : - 46-I1
COMIREX NO:

25X1
25X1

DIA IIM 5B3-52895-77 12 MAY 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S0799625X1

TASHKENT AIRFRAME PLANT A CHKALOV 84 CONST

WAC NO : 0328 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05G

UR 411945N 0691609E
NPIC NO : - 27-N2
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52742-77 29 APR 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S0799625X1

SYKTYVKAR AIRFIELD POL/AMMO STORAGE CAPACITY

WAC NO : 0101 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05I

UR 613845N 0505040E
NPIC NO : - 5
COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52842-77 29 APR 77 [] SEC CLASS: 14 MSN: [] 1P

ACCN: S0799625X1

AKHTUBINSK FLIGHT TEST CTR SPACE VEHICLE SRCH

WAC NO : 0235 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05G

UR 481735N 0461216E
NPIC NO : - 18
COMIREX NO: []

25X1
25X1

AKHTUBINSK FLIGHT TEST CTR SPACE VEHICLE SRCH

WAC NO : 0235 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 40H

UR 481735N 0461216E
NPIC NO : - 1A
COMIREX NO: []

25X1
25X1

1642

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B3-52841-77 29 APR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079969 25X1
 LIKHOSLAVL/KRYUCHKOVO AIRFIELD POL STORAGE UR 570415N 0353002E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 60-A 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: [] 25X1

DIA IIM 5B3-52840-77 29 APR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079970 25X1
 MIORY AIRFIELD POL STORAGE CAPACITY UR 553908N 0274155E
 WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 193 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: [] 25X1

DIA IIM 5B3-52835-77 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079971 25X1
 URA TYUBE AIRFIELD HIGHWAY STRIP SEARCH UR 394500N 0684710E
 WAC NO : 0336 BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

DIA IIM 5B3-52834-77 29 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S079972 25X1
 GULISTAN AIRFIELD HIGHWAY STRIP SEARCH UR 403000N 0684600E
 WAC NO : 0328 BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

DIA IIM 5B3-52827-77 27 APR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079973 25X1
 KRASNODAR/PASHKOVSKIY AIRFIELD POL STORAGE UR 450205N 0390907E
 WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 19-D 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: [] 25X1

NPIC IIR IIR020-77 02 MAY 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: S079974 25X1
 KAMENSK SHAKHTINSKIY SOLID MTR PROD PLT CONST UR 481750N 0401049E
 WAC NO : 0230 BE/OBJ NO: [] NPIC NO : - 13-A1 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

AN EXTENSIVE NEW CONSTRUCTION PROGRAM WAS OBSERVED AT KAMENSK-SHAKHTINSKIY SOLID MOTOR PRODUCTION PLANT, USSR, [] CONSTRUCTION WAS OBSERVED AT TWO OF THE THREE CASTING AND CURING BUILDINGS AND AT ONE OF THE TWO MIXING BUILDINGS. PREPARATIONS FOR CONSTRUCTION WERE UNDERWAY AT ONE OF THE TWO PREMIX BUILDINGS AND AT ONE OF THE TWO FUEL AND ADDITIVES PREPARATION BUILDINGS. ADDITIONAL CONSTRUCTION ACTIVITY WAS OBSERVED OUTSIDE THE NORTHWEST CORNER OF THE PLANT ALIGNED WITH THE THREE CASTING AND CURING BUILDINGS. THE NEW CONSTRUCTION PROGRAM AT THIS PLANT INDICATES A CHANGE IN PRODUCTION, PROBABLY EITHER TO MODIFY AN EXISTING ICBM PROGRAM OR TO IMPLEMENT A PROGRAM FOR A NEW SOLID ICBM.

25X1

1643
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC IIR IIR024-77 02 MAY 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 3P ACCN: S0799725X1

NEZHIN AIRFIELD BADGER G AS-5/AS-6 ARMED	UR	510519N 0315207E	
WAC NO : 0233	BE/OBJ NO:	[REDACTED]	NPIC NO : - 40
IDHS CODE: [REDACTED]	EPF CAT : 40J		COMIREX NO: [REDACTED]
NEZHIN AIRFIELD BADGER G AS-5/AS-6 ARMED	UR	510519N 0315207E	
WAC NO : 0233	BE/OBJ NO:	[REDACTED]	NPIC NO : - 40
IDHS CODE: [REDACTED]	EPF CAT : 05A		COMIREX NO: [REDACTED]
AIRCRAFT: BADGER G TU-16 AS-5/AS-6 ARMED	UR		
WAC NO :	BE/OBJ NO:	[REDACTED]	NPIC NO :
IDHS CODE:	EPF CAT : 05D		COMIREX NO:

ONE KINGFISH MISSILE AND ONE KELT MISSILE MOUNTED ON THE SAME BADGER G AIRCRAFT WERE OBSERVED FOR THE FIRST TIME [REDACTED] AT NEZHIN AIRFIELD, USSR. 25X1

DIA IIM 5B3-52743-77 14 APR 77 [REDACTED] SEC CLASS: 13 MSN [REDACTED] 1P ACCN: S0799725X1

TARNOGSKOY GORODOK AFLD POL/AMMO STGE SEARCH	UR	603015N 0433600E	
WAC NO : 0102	BE/OBJ NO:	[REDACTED]	NPIC NO : - 57
IDHS CODE: [REDACTED]	EPF CAT : 05I		COMIREX NO:

1644
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY BIIB BAC24-0001-77 MAY 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: 5079980 25X1.1

AIRCRAFT: HIP C MODIFIED MI-8 WINGED UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION BRIEF PROVIDES A DESCRIPTION OF THE STUB WINGS ON THE MI-8 HIP C MOD HELICOPTER. SINCE THE MI-8 HIP C WAS DESCRIBED IN DETAIL IN FSTC DOCUMENT "HIP HELICOPTER SYSTEM" (U), ONLY THE WING MODIFICATION WILL BE ADDRESSED IN THIS BIIB.

NPIC BIIB BCA03-0001-77 MAY 77 [] SEC CLASS: 25A MSN: [] 1P ACCN: 5079981 25X1

LODEYNOYE POLE BENT LOG-PERIODIC NO SIG CHNG UR 604230N 0333430E
WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 5-C3
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
LENINGRAD BENT LOG-PERIODIC ANT NO SIG CHNG UR 600455N 0304320E
WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 42-01
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

25X1

25X1

25X1

NPIC BIIR RCA09-0007-77 APR 77 [] SEC CLASS: 25B MSN: [] 12P ACCN: 5079982 25X1

SEVERODVINSK SHIPYARD 402 UR 643438N 0394832E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 7-A
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
SEVERODVINSK SHIPYARD YAGRY OSTROV UR 643514N 0394907E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 7-K
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
SEVERODVINSK NUCLEAR SUBMARINE SPEC SUPT FAC UR 643445N 0394716E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 8
IDHS CODE: [] EPF CAT : 75A COMIREX NO: []
SEVERODVINSK NAVAL BASE WEST UR 643420N 0394551E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 7-L
IDHS CODE: [] EPF CAT : 75B COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT DESCRIBES SIGNIFICANT ACTIVITY AT SEVERODVINSK SHIPYARD COMPLEX, USSR, [] THE FOUR INSTALLATIONS THAT MAKE UP THE COMPLEX WERE COVERED ON USABLE KEYHOLE PHOTOGRAPHY []

25X1

25X1

25X1

SIGNIFICANT EVENTS THAT HAVE OCCURRED AT THIS COMPLEX SINCE THE PREVIOUS ACTIVITY REPORT INCLUDE THE IDENTIFICATION OF A HIGHER MISSILE BAY ON THE D-II NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINE (SSBN)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

STARTING WITH THE FIFTH UNIT AND THE SUBSEQUENT DESIGNATION OF D-III SSBN FOR THOSE UNITS, THE LAUNCH OF THE THIRD AND FOURTH D-III SSBNS, THE ASSOCIATION OF THE LARGE, SS-NX-18 BALLAST CANS WITH THE D-III SSBNS, AND THE SEA TRIAL ACTIVITY OF THE H-III SSBN AND THE MODIFIED Y SSBN.

THIS REPORT CONTAINS A PHOTOGRAPH OF THE SEVERODVINSK SHIPYARD COMPLEX, TWO ANNOTATED PHOTOGRAPHS, AND TWO TABLES. ONE TABLE OUTLINES THE D-III SSBN ACTIVITY AND THE OTHER DETAILS THE C-CLASS NUCLEAR-POWERED CRUISE-MISSILE SUBMARINE (SSGN) AND V-CLASS NUCLEAR-POWERED ATTACK SUBMARINE (SSN) ACTIVITY. ALSO INCLUDED IN THIS REPORT IS A PLAN OF THE SHIPYARD COMPLEX SHOWING THE MAJOR STRUCTURES AND REPORTING POSITIONS.

AF PAR 505-77 11 FEB 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: S0799825X1

SUNTIEN SSM COMPLEX	CH	334700N 1120430E	
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 125	25X1
IDHS CODE: []	EPF CAT : 40	COMIREX NO: []	25X1
SUNTIEN ICBM SITE 1	CH	334723N 1115926E	
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 125-A	25X1
IDHS CODE: []	EPF CAT : 40A	COMIREX NO: []	25X1
SUNTIEN SSM PROPELLANT STORAGE AREA POSS	CH	334815N 1115600E	
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 125-A1	25X1
IDHS CODE: []	EPF CAT : 40	COMIREX NO: []	25X1

THIS REPORT IS A DETAILED PHOTO ANALYSIS OF SUN-TIEN MISSILE LAUNCH COMPLEX SSM. IT UPDATES PAR 75-602 AND IS KEYED TO DRAWING 73D6544/2. THE REPORTING PERIOD COVERS []

25X1

25X1

AF PAR 506-77 14 FEB 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S0799825X1

SUNTIEN ICBM SITE 1 CSS-3 SILO ANALYSIS	CH	334723N 1115926E	
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 125-A	25X1
IDHS CODE: []	EPF CAT : 40A	COMIREX NO: []	25X1
TUNGTAO ICBM SITE CSS-3 SILO ANALYSIS	CH	261338N 1095351E	
WAC NO : 0497	BE/OBJ NO: []	NPIC NO : - 100	25X1
IDHS CODE: []	EPF CAT : 40A	COMIREX NO: []	25X1
MISSILES, CSS-3 LAUNCHER	CH		
WAC NO :	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE:	EPF CAT : 40A	COMIREX NO:	

THIS REPORT PROVIDES AN UPDATED ANALYSIS OF SILO CONSTRUCTION AND CONCEALMENT ACTIVITIES AT SUN-TIEN SSM LAUNCH SITE 1 AND TUNG-TAO SSM LAUNCH SITE. IT IS KEYED TO DRAWINGS 75E4523 AND 75D3501.*

AF PAR 510-77 02 FEB 77 [] SEC CLASS: 13 MSN: [] 16P ACCN: S0799825X1

IVANKOVSKIY GUIDED MISSILE PLANT	UR	564521N 0370700E	
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 18-A	25X1

1646
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

THIS REPORT WHICH SUPERSEDES PAR 76-509, PROVIDES THE LATEST PHOTO ANALYSIS OF IVANKOVSKIY GUIDED MISSILE PLANT. IT IS KEYED TO DRAWING 7106546/6.*

AF PAR 511-77 01 FEB 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079986 25X1

CHINGYU MTC SSM HEADQUARTERS CONSTRUCTION CH 421853N 1265430E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 201-B 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1
SHUANGCHENG TCU MTC SSM SITE C INSTR FACIL CH 412135N 1001921E
WAC NO : 0287 BE/OBJ NO: [] NPIC NO : - 1-L 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1
WUCHAI MTC ICBM SITE B INSTRUMENTATION FACILS CH 385255N 1113527E
WAC NO : 0382 BE/OBJ NO: [] NPIC NO : - 77-D 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1
ELECTRONICS, SSM SITES CH
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

AF PAR 513-77 11 FEB 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S079987 25X1

OLENEGORSK HEN HOUSE ABM RADAR FACILITY CONST UR 680650N 0335434E
WAC NO : 0051 BE/OBJ NO: [] NPIC NO : - 18-N 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1
SARY SHAGAN MTC R+D RADAR FACIL 1 BIG SCREEN UR 460010N 0733859E
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 2-C 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1
MUKACHEVO HEN HOUSE ABM RADAR FACILITY COMP UR 482315N 0224141E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 107-B1 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS REPORT GIVES A BRIEF DESCRIPTION OF SIGNIFICANT CONSTRUCTION AT OLENEGORSK HEN HOUSE RADAR FACILITY, EXCLUSIVE OF THE PHASED-ARRAY RADAR, SINCE THE BEGINNING OF CONSTRUCTION OF THE PHASED ARRAY RADAR. LENGTH OF THE DISASSEMBLED, POSSIBLY SLOTTED BIG SCREEN ELEMENTS AT SARY SHAGAN R+D RADAR FACILITY 1 ARE GIVEN. MUKACHEVO HEN HOUSE RADAR FACILITY IS COMPARED TO OTHER SOVIET HEN HOUSE RADARS.*

AF PAR 514-77 14 FEB 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S079985 25X1

UNASHI AIRFIELD AA-3 ACTIVITY UR 425727N 1330710E
WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 44 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
UNASHI AIRFIELD AA-3 ACTIVITY UR 425727N 1330710E

1647
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0291 BE/OBJ NO: [] NPIC NO : - 44
IDHS CODE: [] EPF CAT : 40J COMIREX NO: []

25X1
25X1

KH PHOTOGRAPHY OF UNASHI AIRFIELD WAS REVIEWED TO DETERMINE IF ANY AIR-TO-AIR MISSILES, OTHER THAN ANAB, ARE PRESENT AT THE INSTALLATION. NO OTHER AAM ACTIVITY OR EQUIPMENT WAS OBSERVED.*

25X1

AF PAR 516-77 09 FEB 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S0799925X1

MUCHIAYEN SSM FIELD POSITION ABANDONED PROB CH 340737N 1093532E
WAC NO : 0385 BE/OBJ NO: [] NPIC NO : - 131-A
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1
25X1

AF PAR 517-77 09 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0799925X1

TIENWEI MTC LAUNCH ACTIVITY SEARCH CH 255520N 1024928E
WAC NO : 0496 BE/OBJ NO: [] NPIC NO : - 14
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1-1

AF PAR 525-77 18 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0799925X1

SANCHIANGKOU SSM FACILITY SEARCH CH 4312 N 12345 E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 40 COMIREX NO:

25X1

AF REPT 695-76 01 FEB 77 [] SEC CLASS: 13 MSN: [] 11P ACCN: S0799925X1

25X1
25X1

1648
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

FAUSTOVO AEROSPACE R+D FACIL RKT SLED TRACK UR 552746N 0383143E
WAC NO : 0167 BE/OBJ NO: [Redacted] NPIC NO : - 50-B
IDHS CODE: [Redacted] EPF CAT : 40H COMIREX NO: [Redacted]

25X1
25X1

THIS REPORT, WITH DRAWING NUMBER 76D6522, PROVIDES A DETAILED ANALYSIS OF THE ROCKET SLED TRACK AREA AT THE FAUSTOVO AEROSPACE R+D FACILITY. INCLUDED ARE A CHRONOLOGICAL GROWTH OF ROOF COVERAGE AND FLOORSPACE IN TABULAR FORM, A DESCRIPTION OF TRACK FEATURES PRIOR TO, AND AFTER MODIFICATIONS, INSTRUMENTATION/INSTRUMENTATION RELATED FEATURES, OBSERVABLES SUGGESTIVE OF TEST PROGRAM DESCRIPTORS, AND UTILITY SERVICES.*

AF PAR 705-76 19 JAN 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 34P

ACCN: S079995 25X1

TYURATAM MTC WAC NO : 0246 BE/OBJ NO: [Redacted] UR 455637N 0632755E
IDHS CODE: [Redacted] EPF CAT : 40E NPIC NO : - 6
COMIREX NO: [Redacted]

25X1
25X1

THIS REPORT PROVIDES A DETAILED PHOTOGRAPHIC ANALYSIS UPDATE OF THE TYURATAM MISSILE TEST RANGE STUDY (DST-10705-311-76-SA0.) [Redacted]
AUGUST-SEPTEMBER 1976.*

25X1

AF ENDR B4525-76 27 AUG 76 [Redacted] SEC CLASS: 13 MSN: [Redacted] 1P

ACCN: S079996 25X1

SARY SHAGAN MTC COMPLEX G LAUNCHER U/I WAC NO : 0245 BE/OBJ NO: [Redacted] UR 455149N 0732352E
IDHS CODE: [Redacted] EPF CAT : 40E NPIC NO : - 78-A
COMIREX NO: [Redacted]

25X1
25X1

[Large Redacted Area]

25X1

1649
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

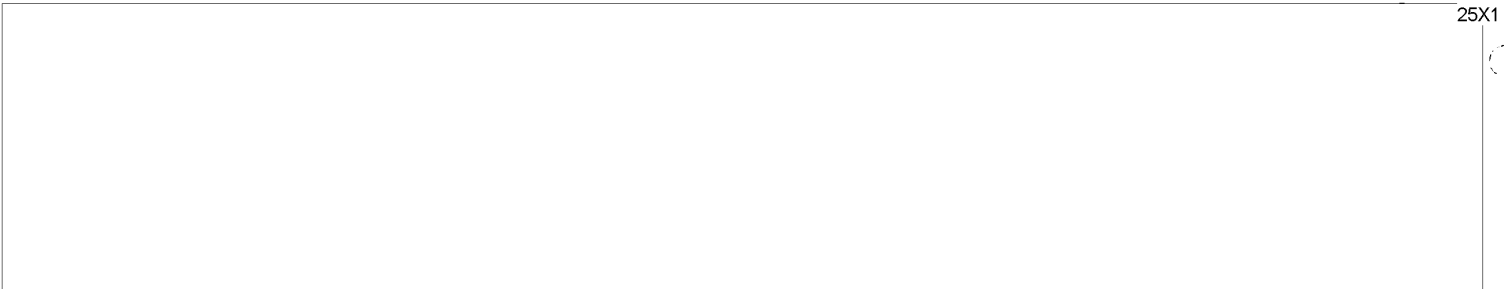


25X1

AF ENDR D1504-77 08 FEB 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 1P ACCN: S080025X1
 KAPUSTIN YAR MTC ELCT RLTD FAC PAD A1 R+D RDR UR 485008N 0453911E
 WAC NO : 0235 BE/OBJ NO: [REDACTED] NPIC NO : - 10-G 25X1
 IDHS CODE: [REDACTED] EPF CAT : 25C COMIREX NO: [REDACTED] 25X1

AF ENDR D3501-1-75 17 JAN 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 1P ACCN: S080025X1
 MISSILES, CSS-3 LAUNCHER UR
 WAC NO : BE/OBJ NO: [REDACTED] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 40A COMIREX NO: [REDACTED]

AF ENDR D4515-2-72 02 FEB 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 1P ACCN: S080025X1
 KOLOMNA RADIO COMMO XMTR CPLX GENERAL STAFF UR 545930N 0385650E
 WAC NO : 0167 BE/OBJ NO: [REDACTED] NPIC NO : - 134-B1 25X1
 IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO: [REDACTED] 25X1



25X1

1650
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF	ENDR	D6522-76	09 NOV 76	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: 5080006	25X1
		FAUSTOVO AEROSPACE R+D FACIL RKT SLED TRACK			UR	552746N 0383143E			
		WAC NO : 0167		BE/OBJ NO: [REDACTED]		NPIC NO : - 50-B			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 40H		COMIREX NO: [REDACTED]			25X1
AF	ENDR	D6544-2-73	14 JAN 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: 5080007	25X1
		SUNTIEN SSM COMPLEX			CH	334700N 1120430E			
		WAC NO : 0385		BE/OBJ NO: [REDACTED]		NPIC NO : - 125			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 40		COMIREX NO: [REDACTED]			25X1
AF	ENDR	D6546-6-71	25 JAN 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: 5080008	25X1
		IVANKOVSKIY GUIDED MISSILE PLANT			UR	564521N 0370700E			
		WAC NO : 0194		BE/OBJ NO: [REDACTED]		NPIC NO : - 18-A			25X1
		IDHS CODE: [REDACTED]		EPE CAT : 40E		COMIREX NO: [REDACTED]			25X1
AF	ENDR	E1510-4-72	07 JAN 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: 5080009	25X1
		MISSILES, SSM GROUND SUPPORT EQUIPMENT			CH				
		WAC NO :		BE/OBJ NO: [REDACTED]		NPIC NO :			
		IDHS CODE:		EPF CAT : 40		COMIREX NO:			
AF	ENDR	E1522-76	04 NOV 76	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: 5080010	25X1
		ELECTRONICS, CLAM SHELL ACQUISITION RADAR			UR				
		WAC NO :		BE/OBJ NO: [REDACTED]		NPIC NO :			
		IDHS CODE:		EPF CAT : 25A		COMIREX NO:			
AF	ENDR	E4523-1-75	13 JAN 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: 5080011	25X1
		MISSILES, CSS-3 LAUNCHER			CH				
		WAC NO :		BE/OBJ NO: [REDACTED]		NPIC NO :			25X1
		IDHS CODE:		EPF CAT : 40A		COMIREX NO:			

25X1

25X1

1651
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

25X1

NPIC MEMO [redacted] 06 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S0800125X1

NIKOLAYEV MILITARY TRNG AREA 1 TELMAN R-410 UR 470400N 0313000E
WAC NO : 0250 BE/OBJ NO: [redacted] NPIC NO : - 46-M 25X1
IDHS CODE: [redacted] EPF CAT : 35B COMIREX NO: [redacted] 25X1
NIKOLAYEV MILITARY TRNG AREA 1 TELMAN R-410 UR 470400N 0313000E
WAC NO : 0250 BE/OBJ NO: [redacted] NPIC NO : - 46-M 25X1
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted] 25X1

THE NIKOLAYEV TRAINING AREA 1 TELMAN WAS SEARCHED [redacted] FOR COMMUNICATIONS EQUIPMENT. THREE R-410 (TWIN PLATE) SETS WERE FOUND DIRECTED AT THE FOLLOWING AZIMUTHS-90, 220, [redacted] DEGREES RESPECTIVELY.*

25X1

DIA IIM 5B3-52854-77 03 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S0800125X1

BORODYANKA AIRFIELD POL STORAGE CAPACITY UR 504010N 0295508E
WAC NO : 0233 BE/OBJ NO: [redacted] NPIC NO : - 126 25X1
IDHS CODE: [redacted] EPF CAT : 05I COMIREX NO: [redacted] 25X1

DIA IIM 5B3-52846-77 05 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0800125X1

SAYNSHAND AIRFIELD MG 445400N 1100200E
WAC NO : 0285 BE/OBJ NO: [redacted] NPIC NO : - 20 25X1
IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted] 25X1

DIA IIM 5B3-52847-77 05 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0800125X1

NIKOLAYEVSKOYE AIRFIELD UR 522010N 1165010E
WAC NO : 0199 BE/OBJ NO: [redacted] NPIC NO : - 6 25X1
IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted] 25X1

DIA IIM 5B3-52848-77 05 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S0800125X1

NERCHINSK AIRFIELD UR 520003N 1163208E
WAC NO : 0199 BE/OBJ NO: [redacted] NPIC NO : - 9-A1 25X1
IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted] 25X1

DIA IIM 5B3-52809-77 04 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S0800125X1

SOKOLOGORNOYE AIRFIELD POL STORAGE CAPACITY UR 462922N 0345828E

25X1

1652
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

WAC NO : 0250 BE/OBJ NO: [Redacted] NPIC NO : - 196-A
IDHS CODE: [Redacted] EPF CAT : 05I COMIREX NO:

25X1
25X1

DIA IIM 5B2-52859-77 03 MAY 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 2P

ACCN: 508001925X1

VIDIN/SMURDAN AIRFIELD

WAC NO : 0251 BE/OBJ NO: [Redacted] BU 440125N 0224845E
IDHS CODE: [Redacted] EPF CAT : 05A NPIC NO : - 245-A
COMIREX NO:

25X1
25X1

[Large Redacted Area]

25X1

NPIC IIR IIR027-77 09 MAY 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 4P

ACCN: 50800225X1

AIRCRAFT: FOXBAT MIG-25 MODIFIED

WAC NO : BE/OBJ NO: UR
IDHS CODE: EPF CAT : 05D NPIC NO :
COMIREX NO:

25X1

1653
TOP SECRET CHESS RUFF

[Redacted]



TOP SECRET CHESS RUFF



25X1

AKHTUBINSK FLIGHT TEST CTR FOXBAT MODIF IDENT UR 481735N 0461216E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 18
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

NPIC IIR IIR028-77 09 MAY 77 [] SEC CLASS: 14D MSN: [] 4P ACCN: S080025X1

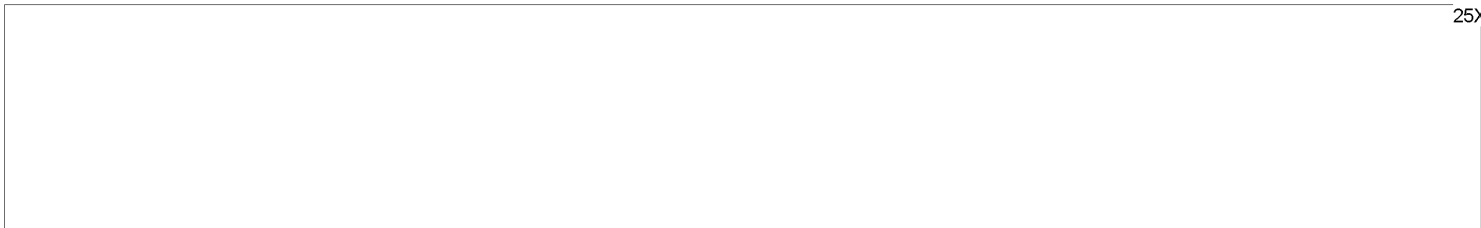
KHABAROVSK ARMY BKS AL26 TAC AIR SIGNAL REGT UR 483024N 1350540E
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 14-E1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
KHABAROVSK ARMY BARRACKS TAC AIR SIGNAL REGT UR 482840N 1350720E
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 7-B
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

25X1
25X1

MAJOR ELEMENTS OF A TACTICAL AIR SIGNAL REGIMENT WERE IDENTIFIED IN KHABAROVSK, USSR, []
[] THE REGIMENT AT KHABAROVSK IS HOUSED IN TWO INSTALLATIONS: KHABAROVSK ARMY BARRACKS RAILROAD
STATION NORTHEAST AL 26 AND KHABAROVSK UNIDENTIFIED SIGNAL REGIMENT ARMY BARRACKS.

25X1
25X1



25X1

NPIC MEMO [] 09 MAY 77 [] SEC CLASS: 14D MSN: [] 2P ACCN: S080025X1

KLYUCHI COMSAT STATION UR 561823N 1605200E
WAC NO : 0132 BE/OBJ NO: [] NPIC NO : - 6-B2
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

KLYUCHI COMSAT STATION WAS REVIEWED TO UPDATE INFORMATION ON COMSAT ANTENNAS, RADIO-RELAY ANTENNAS, AND
RELATED BUILDINGS, TOWERS AND EQUIPMENT. []

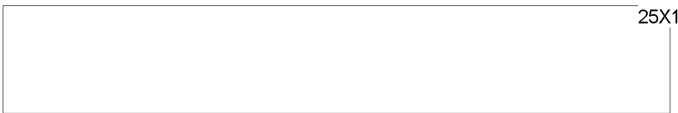
25X1
25X1

NPIC MEMO [] 10 MAY 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080025X1

MOSKVA RADIO RELAY STATION SEARCH UR 5530 N 03803 E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []

25X1

1654
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

IDHS CODE: []

EPF CAT : 25D

COMIREX NO:

25X1

NPIC IIR

IIR030-77 10 MAY 77

SEC CLASS: 14B

MSN: []

3P

ACCN: 5080028

25X1

SHIPS, D-2/D-3 CL SSBN RECOGNITION FEATURES

UR

WAC NO :

BE/OBJ NO: []

NPIC NO :

25X1

IDHS CODE:

EPF CAT : 75D

COMIREX NO:

ADDITIONAL RECOGNITION FEATURES FOR DISTINGUISHING BETWEEN THE D-II AND D-III NUCLEAR FLEET BALLISTIC MISSILE SUBMARINES (SSBNs) WERE OBSERVED AT OLENYA GUBA SUBMARINE BASE, USSR, [] THE FEATURES OF THE D-III INCLUDE A LARGER UPPER RUDDER, THE PLACEMENT OF THE ANTICOLLISION LIGHT, A SHORTER DISTANCE BETWEEN THE AFT TELEPHONE BUOY AND THE RUDDER, AND AN INCREASED NUMBER OF LIMBER HOLES.

25X1

25X1

1653

TOP SECRET CHESS RUFF

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Redacted]

25X1

DIA NBRG NDA06-5064-77 12 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080052

PETROVKA NAVAL BASE + SHIPYARD UR 430703N 1322017E

WAC NO : 0291 BE/OBJ NO: [Redacted] NPIC NO : - 67 25X1

IDHS CODE: [Redacted] EPF CAT : 75B COMIREX NO: [Redacted] 25X1

PETROVKA NAVAL BASE + SHIPYARD UR 430703N 1322017E

WAC NO : 0291 BE/OBJ NO: [Redacted] NPIC NO : - 67 25X1

IDHS CODE: [Redacted] EPF CAT : 75E COMIREX NO: [Redacted] 25X1

DIA NBRG NDA06-5061-77 10 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080053

SEVERODVINSK NAVAL FACILITIES APPROACHES UR 6334 N 03947 E

WAC NO : 0092 BE/OBJ NO: [Redacted] NPIC NO : 25X1

IDHS CODE: [Redacted] EPF CAT : 75 COMIREX NO: 25X1

DIA NBRG NDA06-5062-77 10 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080054

SEVERODVINSK SHIPYARD YAGRY OSTROV UR 643514N 0394907E

WAC NO : 0092 BE/OBJ NO: [Redacted] NPIC NO : - 7-K 25X1

IDHS CODE: [Redacted] EPF CAT : 75E COMIREX NO: [Redacted] 25X1

DIA NBRG NDA06-5063-77 10 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080055

SEVERODVINSK SHIPYARD 402 UR 643438N 0394832E

WAC NO : 0092 BE/OBJ NO: [Redacted] NPIC NO : - 7-A 25X1

IDHS CODE: [Redacted] EPF CAT : 75E COMIREX NO: [Redacted] 25X1

NPIC IIR IIR032-77 11 MAY 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 2P ACCN: S080056 25X1

BAZARNYY SYZGAN ASM/AAM STGE MSL CONTS PROB UR 533740N 0465120E

WAC NO : 0166 BE/OBJ NO: [Redacted] NPIC NO : - 54 25X1

IDHS CODE: [Redacted] EPF CAT : 40J COMIREX NO: [Redacted] 25X1

SIX NEW PROBABLE MISSILE SHIPPING CONTAINERS WERE IDENTIFIED FOR THE FIRST TIME AT BAZARNYY SYZGAN
 PROBABLE ASM/AAM STORAGE DEPOT, USSR, [Redacted] THESE PROBABLE MISSILE SHIPPING
 CONTAINERS MAY BE FOR A NEW MISSILE SYSTEM OR MODIFIED SHIPPING CONTAINERS FOR THE AS-9 ASM.* 25X1

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B3-52881-77 10 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080057 25X1

KUYBYSHEV AIRFRAME PLANT LENIN 18 UR 531300N 0501814E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 19-A
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52883-77 10 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080058 25X1

KIYEV AIRFRAME PLANT 473 UR 502752N 0302329E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 29-D
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52884-77 10 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080059 25X1

TAGANROG AIRFRAME PLANT DIMITROV 86 UR 471154N 0385221E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 38-D
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52875-77 09 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080060 25X1

KHABAROVSK AIRFIELD UR 482745N 1350907E
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 7-Q
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52851-77 09 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080062 25X1

TASHKENT AIRFRAME PLT B CKHALOV CANDID IL-76 UR 411802N 0691904E
WAC NO : 0328 BE/OBJ NO: [] NPIC NO : - 27-N
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52850-77 09 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080063 25X1

ZHELYU VOYVODA AIRFIELD BU 423500N 0262920E
WAC NO : 0322 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

1661
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

ARMY BIIR RAC24-5003-77 APR 77 SEC CLASS: 05B MSN: 18P ACCN: S080065

MILITARY, MT-LB ARMORED AMPHIBIOUS TRACKED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION REPORT ASSESSES THE MASHINA TRANSPORTNAYA LOCKHKAYA BOYEVAYA (MT-LB) FORMERLY DESIGNATED THE TRACKED ARTILLERY TRACTOR/APC M-1970. THE MT-LB IS REPRESENTATIVE OF A FAMILY OF SOVIET VEHICLES DESIGNED TO IMPROVE THE SOVIET'S GROUND FORCES CAPABILITY AND IS CONSISTENT WITH THEIR PHILOSOPHY OF USING A PROVEN CHASSIS. THIS REPORT PROVIDES AN HISTORICAL BACKGROUND, A BASIC DESCRIPTION, EXAMPLES OF DEPLOYMENT, AND IMAGERY INTERPRETATION COMMENTS. THE REPORT ALSO CONTAINS AN ORTHOGRAPHY DRAWING, 12 PHOTOGRAPHS, A STEREOGRAM, AND A REFERENCE SECTION, THE INFORMATION IS CURRENT AS OF JANUARY 1977.

CIA REPT IS10010K-77 APR 77 SEC CLASS: 13 MSN: 16P ACCN: S080025X1

MISSILES, SS-7/8 SITE DISMANTLING/DESTRUCTION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS REPORT PROVIDES A DESCRIPTION, DERIVED FROM SATELLITE IMAGERY, OF THE METHODS AND TIME SCHEDULES FOLLOWED BY THE SOVIETS TO DISMANTLE AND DESTROY CERTAIN BALLISTIC MISSILE LAUNCHERS IN RESPONSE TO THE PROCEDURES WORKED OUT IN THE SALT STANDING CONSULTATIVE COMMISSION (SCC) AND SIGNED IN JULY 1974. THIS REPORT DISCUSSES, IN BROAD TERMS, HOW THE SOVIETS DISMANTLE BOTH SOFT AND HARD ICBM LAUNCHERS, WHAT FACILITIES REMAIN AFTER SUCH DISMANTLEMENT, AND THE SUBSEQUENT USES OF THE DISMANTLED SITES.

THE SCC ESTABLISHED PROCEDURES FOR THE DISMANTLEMENT AND DESTRUCTION OF 'LAUNCHERS FOR LAND-BASED INTER-CONTINENTAL BALLISTIC MISSILES OF OLDER TYPES, DEPLOYED PRIOR TO 1964.' THE TERM 'OLDER TYPES' REFERS TO THE 209 SS-7 AND SS-8 LAUNCHERS. THE FIRST SOFT SITES BECAME OPERATIONAL IN 1961, AND THE HARD (SILO) SITES BECAME OPERATIONAL ABOUT A YEAR LATER. THE SS-7 AND SS-8 MISSILE SYSTEMS WERE DEPLOYED AT A TOTAL OF 92 LAUNCH SITES AT 17 MISSILE COMPLEXES THROUGHOUT THE SOVIET UNION. BEGINNING IN 1964, SINGLE SILOS FOR NEWER MISSILE SYSTEMS WERE ALSO DEPLOYED AT TEN OF THESE 17 COMPLEXES.

SEVERAL SS-7 LAUNCH SITES WERE BEING MAINTAINED IN A REDUCED STATE OF READINESS FROM AS EARLY AS MID-1972. IT WAS THE SUMMER OF 1975, HOWEVER, BEFORE ANY OF THE SITES MET ALL OF THE SCC DISMANTLING CRITERIA. BY THE SPRING AND SUMMER OF 1975, ACTIVITY AT THE SS-7 AND SS-8 TRAINING LAUNCHERS AT THE TYURATAM AND PLESetsk TEST RANGES HAD CEASED -- A FURTHER INDICATION THAT BOTH SYSTEMS WERE BEING PHASED OUT.

NPIC BIIR RCA15-0004-77 MAY 77 SEC CLASS: 25A MSN: 26P ACCN: S080025X1

1662
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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TYURATAM MTC

WAC NO : 0246 BE/OBJ NO: [] UR 455637N 0632755E
IDHS CODE: [] EPF CAT : 40E NPIC NO : - 6
COMIREX NO: []

25X1
25X1

ACTIVITY OBSERVED AT TYURATAM MISSILE/SPACE TEST CENTER SSM BETWEEN LATE APRIL 1975 AND EARLY DECEMBER 1976 INCLUDED THE CONSTRUCTION OF TWO TYPE III G (SS-19) SILOS (S9N AND S9S) AND TWO TYPE III H (SS-17) SILOS (V4 AND V5), THE START OF CONSTRUCTION FOR A SECOND SPACE LAUNCH PAD (U2) AT SITE U1/2, THE DIGGING OF FIVE UNIDENTIFIED CORINGS NEAR INACTIVE SPACE LAUNCH SITE B2, AND THE DELIBERATE DESTRUCTION OF ONE SS-7 SILO AT LAUNCH SITE D1. ALSO, A NEW MISSILE TRANSPORTER FOR THE SS-19 MISSILE WAS IDENTIFIED, ADDITIONAL DETAILS OF THE SS-17 MISSILE CANISTER WERE SEEN ON EXCELLENT PHOTOGRAPHY, AND PROBABLE SL-12 SPACE BOOSTERS WERE SEEN ERECTED ON THE G3 AND G4 LAUNCH PADS.

THIS IS THE 12TH REPORT IN A SERIES REVIEWING ACTIVITY AND DEVELOPMENTS OBSERVED AT THE TYURATAM MISSILE/SPACE TEST CENTER SSM. IT INCLUDES ANNOTATED PHOTOGRAPHS OF SELECTED ACTIVITY AND FACILITIES, TABLES SHOWING A CORRELATION BETWEEN MISSILE AND SPACE BOOSTER LAUNCHES AND ACTIVITY OBSERVED AT THE TEST CENTER, A MAP OF THE INSTALLATION, AND OTHER RELEVANT DATA.

25X1

NPIC MEMO [] 12 MAY 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S080069^{25X1}

SHUMERLYA SSM ACTIVITY SEARCH

WAC NO : 0166 BE/OBJ NO: [] UR 5530 N 04624 E
IDHS CODE: [] EPF CAT : 40 NPIC NO : []
COMIREX NO: []

25X1

NPIC MEMO [] 12 MAY 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S080070^{25X1}

NEVINNOMYSSK RADIO RELAY STATION SSE

WAC NO : 0249 BE/OBJ NO: [] UR 443445N 0415830E
IDHS CODE: [] EPF CAT : 25D NPIC NO : - 128
COMIREX NO: []

25X1

25X1

VODORAZDEL RADIO RELAY STATION

WAC NO : 0249 BE/OBJ NO: [] UR 443405N 0421238E
IDHS CODE: [] EPF CAT : 25D NPIC NO : - 9
COMIREX NO: []

25X1

25X1

KURSAVKA RADIO RELAY STATION

WAC NO : 0249 BE/OBJ NO: [] UR 442620N 0423715E
IDHS CODE: [] EPF CAT : 25D NPIC NO : - 127
COMIREX NO: []

25X1

25X1

MINERALNYYE VODY RADIO RELAY STATION

WAC NO : 0248 BE/OBJ NO: [] UR 441248N 0430812E
IDHS CODE: [] EPF CAT : 25D NPIC NO : - 5-A
COMIREX NO: []

25X1

25X1

1663
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CHERKESSK RADIO RELAY STATION NE	WAC NO : 0249	BE/OBJ NO: []	UR 441545N 0420620E	25X1
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 102-A	
ARDON RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 431045N 0441625E	25X1
ORDZHONIKIDZE TV CENTER	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 5	25X1
	IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
NAZRAN RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	UR 430105N 0444105E	25X1
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 18-F1	25X1
PYATIGORSK RADIO RELAY + TV BROADCAST CENTER	WAC NO : 0248	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25B	UR 431325N 0444550E	25X1
KISLOVODSK RADIO RELAY + RADIO COMMO STATION	WAC NO : 0324	BE/OBJ NO: []	NPIC NO : - 18-B3	25X1
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
PYATIGORSK RADIO RELAY + TV BROADCAST CENTER	WAC NO : 0248	BE/OBJ NO: []	UR 440310N 0430450E	25X1
	IDHS CODE: []	EPF CAT : 25B	NPIC NO : - 7-A2	25X1
KARABULAKSKAYA RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 435724N 0424130E	25X1
SAMASHKI RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 33-A1	25X1
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
URUS MARTAN RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	UR 440310N 0430450E	25X1
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 7-A2	25X1
BAKSAN RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 431807N 0445300E	25X1
NALCHIK TV + FM BROADCASTING CENTER	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 21-W	25X1
	IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
KHASAV YURT RADIO RELAY STATION EAST	WAC NO : 0325	BE/OBJ NO: []	UR 431745N 0451800E	25X1
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 21-V2	25X1
BOGATYREVKA RADIO RELAY STATION	WAC NO : 0325	BE/OBJ NO: []	COMIREX NO:	25X1
	IDHS CODE: []	EPF CAT : 25D	UR 430550N 0453520E	25X1
ORDZHONIKIDZE RADIO RELAY STATION SW	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 21-I2	25X1
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
			UR 434112N 0433102E	25X1
			NPIC NO : - 42-B2	25X1
			COMIREX NO:	25X1
			UR 432750N 0433440E	25X1
			NPIC NO : - 42-A4	25X1
			COMIREX NO:	25X1
			UR 431325N 0464125E	25X1
			NPIC NO : - 92-A2	25X1
			COMIREX NO:	25X1
			UR 430750N 0472128E	25X1
			NPIC NO : - 151	25X1
			COMIREX NO:	25X1
			UR 425840N 0443900E	25X1

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

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25X1

WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 18-A2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
GROZNYI RADIO RELAY/TV/FM BROADCASTING CENTER	UR 431400N 0454200E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 21-T2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
GROZNYI RADIO RELAY/TV/FM BROADCASTING CENTER	UR 431400N 0454200E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 21-T2	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
GUDERMES RADIO RELAY STATION	UR 432010N 0460420E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 22-B1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KHASAV YURT RADIO RELAY STATION	UR 431440N 0463555E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 92-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
GEORGIYEVSK/GUDERMES RADIO RELAY LINE SEARCH	UR 4409 N 04328 E		
WAC NO : 0248	BE/OBJ NO: []	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
GUDERMES/GEORGIYEVSK RADIO RELAY LINE SEARCH	UR 4322 N 04606 E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KASPIYSK RADIO RELAY STATION	UR 425200N 0473830E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 35-J3	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1.1
TEREK RADIO RELAY STATION	UR 432928N 0440846E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 125	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

USING THE LATEST AVAILABLE KEYHOLE PHOTOGRAPHY, THIS MEMO GIVES THE ANTENNA TYPES AND ORIENTATIONS OF THE RADIO-RELAY STATIONS BETWEEN NEVINNOMYSSK AND KASPIYSK, USSR. A SEARCH OF THE RAIL LINE BETWEEN GEORGIYEVSK AND GUDERMES REVEALED NO RADIO-RELAY STATIONS.*

25X1

1665
TOP SECRET CHESS RUFF

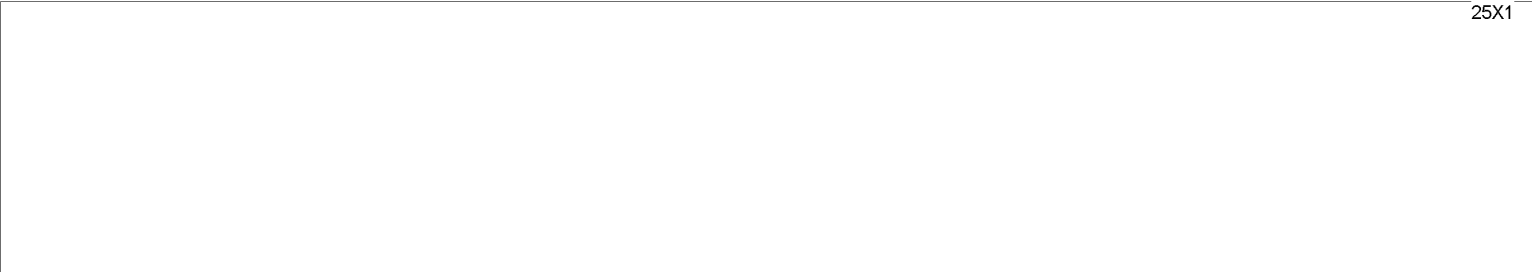
25X1



TOP SECRET CHESS RUFF



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25X1

ARMY NOTE 9-77 FEB 77 SEC CLASS: 08B MSN: 6P ACCN: S080074

MISSILES, SS-1 RESUPPLY TRAILER NEW UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

A NEW SCUD MISSILE RESUPPLY TRAILER WAS PHOTOGRAPHED IN MID-1976. THIS NEW TRAILER, WHICH IS CAPABLE OF CARRYING TWO AND POSSIBLY THREE SCUD MISSILES, WILL ALLOW THE SOVIETS TO DOUBLE OR POSSIBLY TRIPLE THEIR PRESENT SCUD MISSILE RESUPPLY CAPABILITY BETWEEN DEPOT AND BRIGADE WITHOUT INCREASING THE NUMBER OF TRAILERS.*

ARMY TP TP001-77 JAN 77 SEC CLASS: 05 MSN: 35P ACCN: S080075

PHOTO, NIIRS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:

THIS MANUAL WAS COMPILED FOR THE PURPOSE OF INTRODUCING THE ARMY IMAGE INTERPRETER TO THE NATIONAL IMAGERY INTERPRETABILITY RATING SCALE (NIIRS). THE PHOTOGRAPHIC EXAMPLES WERE SELECTED FROM BOTH OVERHEAD RECONNAISSANCE SYSTEMS AND HAND-HELD PHOTOGRAPHY AND ILLUSTRATES THE VARIOUS QUALITY LEVELS OF THE NIIRS SYSTEM.

THE MANUAL HAS THREE SECTIONS. SECTION I (INTRODUCTION) AND SECTION II (NIIRS KEY GUIDE SHEET) WERE EXTRACTED FROM NPIC DOCUMENT [REDACTED] TO PROVIDE BACKGROUND INFORMATION ON THE PURPOSE, THE CONCEPT OF DEVELOPMENT, THE APPLICATION, AND THE DEFINITIONS OF THE NIIRS. SECTION III CONTAINS APPENDICES WHICH ILLUSTRATE THE NIIRS APPLICATION TO PHOTOGRAPHY OF GROUND FORCES INSTALLATIONS AND EQUIPMENT, INCLUDING TRACKED VEHICLES, TANKS, AND ARTILLERY. IN ADDITION TO LISTING KEY SIGNATURES FOR EACH RATING EXAMPLE DEFINED IN SECTION II, WHICH AN IMAGE INTERPRETER SHOULD BE ABLE TO OBSERVE, THIS MANUAL LISTS THE APPROPRIATE SIGNATURES WHICH CANNOT BE OBSERVED AT THAT PARTICULAR RATING.

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25X1

1666
TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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25X1

DIA STDY DDI2680-023A-77 APR 77 [] SEC CLASS: 25 MSN: 39P ACCN: S080091

25X1

MILITARY, DEVELOPMENTS		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:
MISSILES, DEVELOPMENTS		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40	COMIREX NO:
NAVAL, DEVELOPMENTS		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 75	COMIREX NO:
AIRCRAFT, DEVELOPMENTS		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05	COMIREX NO:
ELECTRONICS, DEVELOPMENTS		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25	COMIREX NO:

THIS QUARTERLY PUBLICATION PRESENTS A SNAPSHOT OVERVIEW OF TRENDS IN SOVIET FORCES. IT SUMMARIZES THE MOST SIGNIFICANT DEVELOPMENTS OVER THE LAST FEW MONTHS AND PLACES THEM IN PERSPECTIVE AGAINST OVERALL PROJECTIONS AND TRENDS FOR EACH FORCE ELEMENT OR ACTIVITY. IT IS PRODUCED JOINTLY BY THE DEPUTY DIRECTORATES FOR INTELLIGENCE RESEARCH, SCIENTIFIC AND TECHNICAL INTELLIGENCE, ESTIMATES, AND CURRENT INTELLIGENCE WITHIN THE VICE DIRECTORATE FOR PRODUCTION. THE PROJECTIONS FOR THE 1980 TIME PERIOD REFLECT THE MOST LIKELY TRENDS IN DEVELOPMENTS FOR EACH OF THE INDIVIDUAL FORCE ELEMENTS.

NPIC NAIR R11-76 NOV 76 SEC CLASS: 05 MSN: 2P ACCN: S080092

PHOTO, U-2 IMAGERY DISASTER ASMNT REACTION		GT
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 65	COMIREX NO:

25X1

1673
TOP SECRET CHESS RUFF

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25X1

THIS PAPER ADDRESSES CERTAIN SENSITIVE ASPECTS OF THE USE OF U-2 PHOTOGRAPHY IN GUATEMALA DURING THE FEBRUARY 1976 EARTHQUAKE RELIEF EFFORT. THE DETAILS OF THE U-2 MISSIONS AND THE DISPOSITION AND UTILIZATION OF THE IMAGERY ARE EXPLAINED IN AN UNCLASSIFIED REPORT (NPIC REPORT R-08/76).

THE INSTANCE IN GUATEMALA OF THE USE OF THE U-2 ABROAD IN AN UNCLASSIFIED ROLE FOR DISASTER ASSESSMENT WAS PRECEDENT SETTING. THE REACTIONS OF THE GOVERNMENT OF GUATEMALA (GOG) AND THE WORLD PRESS WERE INFORMALLY NOTED TO ASSESS THE SENSITIVITY OF AN AGENCY FOR INTERNATIONAL DEVELOPMENT (AID) USE OF AN AIRCRAFT AND RECONNAISSANCE SYSTEM NORMALLY ASSOCIATED WITH INTELLIGENCE COLLECTION. DESPITE THE HISTORICAL NOTORIETY OF THE U-2, ITS USE IN THIS UNCLASSIFIED ROLE APPEARS TO HAVE CAUSED NO OUTCRY.

NPIC NAIR [] NOV 76 [] SEC CLASS: 14 MSN: [] 13P

ACCN: S0800925X1

PHOTO, SATELLITE IMAGERY DISASTER ASSESSEMENT GT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:

THIS IS THE FIRST TIME THAT HIGH-RESOLUTION IMAGERY OF A FOREIGN DISASTER HAS BEEN MADE AVAILABLE TO THE AFFECTED NATION IN TIME TO BE USEFUL FOR EMERGENCY PLANNING. FOR THAT REASON AND IN VIEW OF THE SATELLITE CAPABILITIES AVAILABLE IN THE NEAR FUTURE, THIS PAPER ASSESSES THE CAPABILITIES AND LIMITATIONS OF THE PRESENT AND FUTURE SATELLITE SYSTEMS FOR DISASTER ASSESSMENT PURPOSES.*

NPIC NAIR R08-76 FEB 76 SEC CLASS: 00 MSN: 76P

ACCN: S080094

PHOTO, U-2 IMAGERY DISASTER ASSESSMENT GT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:
GENERAL, EARTHQUAKE ASSESSMENT GT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10D COMIREX NO:

THE U-2/IRIS-2 PHOTOGRAPHIC SYSTEM HAS PROVEN TO BE A VERY EFFECTIVE SYSTEM FOR DISASTER RELIEF RECONNAISSANCE. AT THE HIGH OPERATIONAL ALTITUDES OF THE U-2, THE IRIS-2 PANORAMIC CAMERAS CAN PHOTOGRAPH HUGE AREAS ON A SINGLE MISSION. THE HIGH-RESOLUTION BLACK AND WHITE IMAGERY OF THE IRIS-2 IS EASILY INTERPRETED WITH HUMAN RATHER THAN ELECTRONIC RESOURCES. FOR THIS REASON LDCS ARE LIKELY TO FIND HIGH-RESOLUTION BLACK AND WHITE IMAGERY MORE USEFUL AND LESS THREATENING THAN MULTISPECTRAL, DIGITAL SYSTEMS.

THE DATA PROVIDED BY THE U-2 IMAGERY PROVED ESSENTIAL TO THE DISASTER RELIEF EFFORT. THE IMAGERY PROVIDED THE FIRST COMPREHENSIVE VIEW OF THE DISASTER AND ENABLED ASSESSMENT OF THE DAMAGE IN REMOTE AREAS. PHOTOGRAPHS OF EARTHQUAKE DAMAGE WERE PARTICULARLY HELPFUL TO ADMINISTRATORS, PLANNERS, AND ENGINEERS IN THEIR RELIEF WORK. THE PHOTOGRAPHS ALSO PROVIDED THE US CONGRESS WITH A VERY GRAPHIC PORTRAIT OF THE DISASTER.

SAC DSIIR RSF06-8001-77 APR 77 SEC CLASS: 05 MSN: [] 8P

ACCN: S08009525X1

1674
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KOSONG UP NAVAL BASE
WAC NO : 0380 BE/OBJ NO: [] KN 384414N 1281135E
IDHS CODE: [] EPF CAT : 75B NPIC NO : - 67-R
COMIREX NO: []

25X1
25X1

KOSONG-UP IS LOCATED ON THE SOUTHERN EAST COAST OF NORTH KOREA, 148 KM SOUTH OF SINPO AND 212.7 KM EAST SOUTHEAST OF PYONGYANG. THE INSTALLATION IS APPROXIMATELY 579 X 533 METERS AND CONSISTS OF FIVE MAJOR AREAS. AREA A, A QUARTERS AND BARRACKS AREA; AREA B, THE ADMINISTRATION AREA; AREA C, THE OPERATIONS AND BERTHING AREA; AREA D, THE REPAIR AREA; AND AREA E, A STORAGE AND SUPPORT AREA.
KOSONG-UP NAVAL BASE IS PRIMARILY AN OPERATIONAL/SUPPORT BASE FOR PATROL ESCORTS, MOTOR TORPEDO BOATS, AND PATROL MOTOR GUNBOATS.

SAC DSIIR RSF06-8002-77 APR 77 SEC CLASS: 05 MSN: [] 7P

ACCN: S080096 25X1

SUNWI DO NAVAL FACILITY PUG
WAC NO : 0380 BE/OBJ NO: [] KN 374610N 1252018E
IDHS CODE: [] EPF CAT : 75B NPIC NO : - 25-A
COMIREX NO: []

25X1
25X1
25X1

SUNWI-DO IS LOCATED 6.3 KM SOUTH OF SAGON-NI NAVAL BASE, [] THE INSTALLATION CONSISTS OF A WATER LEVEL BOAT STORAGE/REPAIR TUNNEL WITH A BASIN AND A BLAST SHIELD PROTECTED TUNNEL DOOR AT EITHER END, AND ONE SMALL QUAY.

SUNWI-DO SUPPORTS MOTOR TORPEDO BOATS WHICH CAN BE ACCOMODATED IN THE TWO TUNNEL ENTRANCES. IT CAN ALSO SUPPORT MOTOR GUNBOATS, MECHANIZED LANDING CRAFT AND GUIDED MISSILE PATROL BOATS. SUNWI-DO IS IDEALLY LOCATED FOR SUPPORT OF OFFENSIVE OPERATIONS AGAINST ALLIED SHIPPING DESTINED FOR PORTS IN SOUTH KOREA.

DIA STDY DST1430S-024-77 07 MAR 77 [] SEC CLASS: 25 MSN: [] 33P

ACCN: S080097 25X1

ELECTRONICS, NAVIGATION/GEODETIC SPACE SYS UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS STUDY PROVIDES ADDITIONAL INFORMATION ON THE CHARACTERISTICS AND CAPABILITIES OF SOVIET NAVIGATION AND GEODETIC SPACE SYSTEMS NOT INCLUDED IN DST-1430S-024-76, 'NAVIGATION/GEODETIC SPACE SYSTEMS-USSR (U),' BECAUSE OF CLASSIFICATION.*

DIA STDY DST1430S-028-77 11 FEB 77 [] SEC CLASS: 25 MSN: [] 122P

ACCN: S080098 25X1

ELECTRONICS, COMMUNICATIONS SPACE SYSTEMS UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS STUDY PROVIDES ADDITIONAL INFORMATION ON THE CHARACTERISTICS AND CAPABILITIES OF SOVIET COMMUNICATION SPACE SYSTEMS NOT INCLUDED IN DST-1430S-028-76, (TITLE UNCLASSIFIED) 'COMMUNICATION SPACE SYSTEMS-USSR,' BECAUSE OF SECURITY CLASSIFICATION.*

1675
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

NAVY DSIIR [redacted] 22 FEB 77 [redacted] SEC CLASS: 13 MSN: [redacted] 16P

ACCN: S08009^{25X1}

NAVAL, SHIP CONSTRUCTION/CONVERSION	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75
NAVAL, SHIP CONSTRUCTION/CONVERSION	CH
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75
NAVAL, SHIP CONSTRUCTION/CONVERSION	KN
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75
NAVAL, SHIP CONSTRUCTION/CONVERSION	PL
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75

THIS IS A TABULAR REPORT OF SOVIET, CHINESE, POLISH, AND NORTH KOREAN SHIP CONSTRUCTION/CONVERSION ACTIVITY.*

NAVY DSIIR RMC23-8004-77 FEB 77 SEC CLASS: 05 MSN: 26P

ACCN: S080100

SHIPS, DESNA CLASS AGM	UR
WAC NO :	BE/OBJ NO: [redacted]
IDHS CODE:	EPF CAT : 75D
	NPIC NO :
	COMIREX NO:

25X1

THIS IS A DETAILED, IMAGERY ORIENTED ANALYSIS OF THE SOVIET DESNA CLASS MISSILE RANGE INSTRUMENTATION SHIP (AGM). IT INCLUDES A BASIC DESCRIPTION OF THE SHIPS CHARACTERISTICS, SELECTED PHOTOGRAPHIC VIEWS, AND INVENTORIES OF THE ELECTRONIC SUITES.

DESNA IS A SOPHISTICATED MISSILE AND SPACE VEHICLE TRACKING SHIP HAVING AN OVERALL LENGTH OF 139.9 METERS AND A MAXIMUM BEAM OF 18 METERS. THE TWO DESNA UNITS ARE DEPLOYED IN THE SOVIET PACIFIC FLEET AND ARE NAMED CHAZHMA AND CHUMIKAN. THESE UNITS HAVE BEEN OBSERVED FLYING THE NAVAL HYDROGRAPHIC ENSIGN AND ARE BELIEVED TO HAVE A DUAL MISSION -- SUPPORT OF MONITORING MISSILE TESTS IN THE PACIFIC, AND A SUPPORT ROLE FOR MAJOR SPACE OPERATIONS. IN ADDITION, THEY PROBABLY PERFORM VARIOUS HYDROGRAPHIC/OCEANOGRAPHIC OPERATIONS WHILE ON LONG DEPLOYMENTS. THESE VESSELS ARE BELIEVED CAPABLE OF REMAINING ON STATION FOR A CONSIDERABLE PERIOD OF TIME WITHOUT REPLENISHING. BOTH UNITS SPEND A GREAT DEAL OF TIME DEAD-IN-WATER WHEN ON STATION. BOTH DESNA UNITS ARE PRESENTLY HOMEPORTED IN PETROPAVLOVSK.
INTELLIGENCE CUT-OFF DATA FOR THIS REPORT IS FEBRUARY 1977.

DIA STDY DST1080R-115-77 17 FEB 77 [redacted] SEC CLASS: 24 MSN: [redacted] 59P

ACCN: S0801^{25X1}

ELECTRONICS, SRF COMMAND CONTROL COMMO SYSTEM	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 25C
	NPIC NO :
	COMIREX NO:

25X1

1676
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT STUDIES THE SOVIET STRATEGIC ROCKET FORCE (SRF) USE OF REDUNDANCY IN COMMUNICATION SYSTEMS AS A MEANS OF INSURING SURVIVABLE COMMUNICATIONS FOR THEIR COMMAND + CONTROL SYSTEM.*

25X1

ARMY NOTE 10-77 MAR 77 SEC CLASS: 05 MSN: 9P ACCN: S080105

MILITARY, PERU-CHILE BORDER ACTIVITY	PE
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35
MILITARY, CHILE-PERU BORDER ACTIVITY	NPIC NO :
WAC NO :	COMIREX NO:
IDHS CODE:	EPF CAT : 35
	CI
	NPIC NO :
	COMIREX NO:

THIS BRIEFING NOTE DISCUSSES MILITARY ACTIVITY OBSERVED ON SATELLITE PHOTOGRAPHY FROM 1974 TO 1977 ALONG THE PERU-CHILE BORDER. THE UNIT ORDER OF BATTLE MAPS WERE COMPILED FROM ALL SOURCE INFORMATION AND ARE CURRENT AS OF AUGUST 1976 FOR PERU AND AS OF JUNE 1976 FOR CHILE. USAIIC FINDS NO SIGNIFICANT CHANGE IN THE LEVEL OF ACTIVITY AND NO PHOTOGRAPHIC EVIDENCE OF IMMINENT HOSTILITY.

CIA INFR IS10103K-77 31 OCT 77 SEC CLASS: 13 MSN: 10P ACCN: S080106

SHIPS, SUBMERSIBLES/UNDERWATER VEHICLE ACT	UR
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 75
	NPIC NO :
	COMIREX NO:

1677
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS MEMORANDUM IS PART OF A CONTINUING STUDY OF SELECTED SOVIET SUBMERSIBLES AND RELATED UNDERWATER ACTIVITY. THIS REPORT UTILIZES ALL PERTINENT IMAGERY FROM THE CUT-OFF DATE OF THE LAST REPORT (8 MARCH 1977) TO 8 SEPTEMBER 1977. OF SPECIAL SIGNIFICANCE DURING THIS TIME PERIOD WAS THE ARRIVAL OF A NEW 13.4-METER SUBMERSIBLE AT THE SEVEROMORSK NAVAL BASE AND THE IDENTIFICATION OF A PREVIOUSLY UNIDENTIFIED 15-METER-LONG SUBMERSIBLE THAT IS CARRIED BY THE KOMMUNA ARSD AT SEVASTOPOL. SINCE MANY OF THE SUBMERSIBLES ANALYZED HAVE NO KNOWN SOVIET NAME, THEY WILL BE REFERRED TO BY THEIR LENGTH. IT SHOULD NOT BE ASSUMED, HOWEVER, THAT SUBMERSIBLES HAVING SIMILAR LENGTHS ARE THE SAME, SINCE MOST HAVE UNIQUELY DIFFERENT HULL FORMS.

DIA NBRG NDA06-5044-77 13 MAY 77 SEC CLASS: 05A MSN: 1P ACCN: S080107

AL ISKANDARIYAH NAVAL BASE/SUB BASE/HQ NATI [] EG 311150N 0295150E
WAC NO : 0448 BE/OBJ NO: [] NPIC NO : - 2-M
IDHS CODE: [] EPF CAT : 75B COMIREX NO: []
AL ISKANDARIYAH NAVAL BASE/SUB BASE/HQ NATI [] EG 311150N 0295150E
WAC NO : 0448 BE/OBJ NO: [] NPIC NO : - 2-M
IDHS CODE: [] EPF CAT : 75A COMIREX NO: []

25X1
25X1
25X1
25X1

DIA NBRG NDA06-5045-77 13 MAY 77 SEC CLASS: 05A MSN: 1P ACCN: S080108

AL LADHIQIYAH PORT FACILITIES SY 353047N 0354552E
WAC NO : 0426 BE/OBJ NO: [] NPIC NO : - 1
IDHS CODE: [] EPF CAT : 75 COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5046-77 13 MAY 77 SEC CLASS: 05A MSN: 1P ACCN: S080109

BUR SAFAJAH PORT FACILITIES + NAVAL HQ EG 264358N 0335640E
WAC NO : 0544 BE/OBJ NO: [] NPIC NO : - 16
IDHS CODE: [] EPF CAT : 75B COMIREX NO: []
BUR SAFAJAH PORT FACILITIES + NAVAL HQ EG 264358N 0335640E
WAC NO : 0544 BE/OBJ NO: [] NPIC NO : - 16
IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1
25X1
25X1
25X1

DIA NBRG NDA06-5047-77 13 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080110

LENINGRAD NAVAL/SHIPYARD FACILS APPROACHES UR 5955 N 03015 E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 75 COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5048-77 13 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080111

LENINGRAD SHIPYARD ZHDANOV 190 UR 595233N 0301406E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-K

25X1

1678
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1

DIA NBRG NDA06-5049-77 13 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080112

LENINGRAD SHIPYARD ADMIRALTY 194 UR 595502N 0301618E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-T
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5050-77 13 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080113

LENINGRAD SHIPYARD BALTIYSK ORDZHONIKIDZE 189 UR 595518N 0301537E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-E
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5051-77 13 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080114

LENINGRAD SHIPYARD SUDOMEKH 196 UR 595542N 0301649E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-B
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5052-77 13 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080115

LENINGRAD SHIPYARD PETROVSKIY UR 595736N 0301512E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-W1
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52896-77 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080116

TASHKENT AIRFRAME PLANT B CHKALOV 84 CONST UR 411802N 0691904E
WAC NO : 0328 BE/OBJ NO: [] NPIC NO : - 27-N
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

DIA IIM 5B3-52900-77 13 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080117

MURMASHI GRAIN STORAGE BUNKER POSS UR 684935N 0324610E
WAC NO : 0051 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 80B COMIREX NO:

25X1
25X1

DIA IIM 5B3-52909-77 12 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080118

GOV AIRFIELD HANGARETTES UR 584853N 0280050E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 13
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

1679

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-52910-77 12 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S0801125X1

AFRIKANDA AIRFIELD HANGARETTES UR 672723N 0324731E

WAC NO : 0091 BE/OBJ NO: [] NPIC NO : - 1 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM 5B3-52911-77 13 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0801225X1

GROMOVO AIRFIELD HANGARETTES UR 604253N 0300645E

WAC NO : 0103 BE/OBJ NO: [] NPIC NO : - 27 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

25X1

DIA IIM 5B3-52928-77 17 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0801225X1

LODEYNOYE POLE AIRFIELD HANGARETTES UR 604234N 0333424E

WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 5 25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA NBRG NDA06-5053-77 17 MAY 77 SEC CLASS: 05G MSN: [] 1P ACCN: S080123

CHINGTAO NAVAL FACILITIES APPROACHES CH 3604 N 12018 E

WAC NO : 0381 BE/OBJ NO: [] NPIC NO : 25X1

IDHS CODE: [] EPF CAT : 75 COMIREX NO: [] 25X1

DIA NBRG NDA06-5054-77 17 MAY 77 SEC CLASS: 05G MSN: [] 1P ACCN: S080124

CHINGTAO NAVAL BASE CH 360601N 1201901E

WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 13-D2 25X1

IDHS CODE: [] EPF CAT : 75B COMIREX NO: [] 25X1

DIA NBRG NDA06-5055-77 17 MAY 77 SEC CLASS: 05G MSN: [] 1P ACCN: S080125

CHINGTAO SUBMARINE BASE CH 360545N 1201839E

WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 13-D 25X1

IDHS CODE: [] EPF CAT : 75A COMIREX NO: [] 25X1

25X1

1680 TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO [] 19 MAY 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S080128 25X1

KHIMKI KRUG DF FACILITY
WAC NO : 0167 BE/OBJ NO: [] UR 555555N 0373737E 25X1
IDHS CODE: [] EPF CAT : 25A NPIC NO : - 58-S 25X1
COMIREX NO: []

KHIMKI DF FACILITY KRUG CONSISTS OF A MODIFIED KRUG CONTROL BUILDING AND AN UNMODIFIED KRUG ANTENNA. NO COMMUNICATIONS FACILITY COULD BE IDENTIFIED AS BEING ASSOCIATED WITH THE KRUG.*

DIA NBRG NDA07-5229-77 19 MAY 77 SEC CLASS: 05B MSN: [] 1P ACCN: S080129

ELBASAN ARMY BARRACKS 1
WAC NO : 0322 BE/OBJ NO: [] AL 410647N 0200619E 25X1
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 21-D 25X1
COMIREX NO: []

1681
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

DIA	NBRG	NDA07-5230-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080130
		DURRES ARMY BARRACKS 1/6		AL	411733N 0193047E		
		WAC NO : 0322	BE/OBJ NO: []	NPIC NO	: - 20-B		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1.1
DIA	NBRG	NDA07-5231-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080131
		TIRANE MILITARY BARRACKS NE 3		AL	412040N 0195020E		
		WAC NO : 0322	BE/OBJ NO: []	NPIC NO	: - 93-E3		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5232-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080132
		TIRANE ARMY BARRACKS SKANDERBERG 4		AL	412035N 0195009E		
		WAC NO : 0322	BE/OBJ NO: []	NPIC NO	: - 93-F		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5233-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080133
		SHKODER ARMY BARRACKS 1		AL	420435N 0193058E		
		WAC NO : 0322	BE/OBJ NO: []	NPIC NO	: - 233-A		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5234-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080134
		BURREL ARMY BARRACKS 1		AL	413709N 0200032E		
		WAC NO : 0322	BE/OBJ NO: []	NPIC NO	: - 13		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5235-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080135
		ORADEA ARMY BARRACKS 1		RO	470254N 0215504E		
		WAC NO : 0251	BE/OBJ NO: []	NPIC NO	: - 81-C		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5236-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080136
		FOCSANI ARMY BARRACKS SOUTH 1/2		RO	454057N 0271051E		
		WAC NO : 0250	BE/OBJ NO: []	NPIC NO	: - 24-A1		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5237-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080137

1682

TOP SECRET CHESS RUFF



25X1



TOP SECRET CHESS RUFF



25X1
25X1

TIMISOARA ARMY BARRACKS 12

WAC NO : 0251 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

RO 454305N 0211420E
NPIC NO : - 116-B2
COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5056-77 17 MAY 77

SEC CLASS: 05G MSN: 1P

ACCN: S080138

HUANGPU NAVAL FACILITIES APPROACHES

WAC NO : 0614 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75

CH 2304 N 11325 E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5057-77 17 MAY 77

SEC CLASS: 05G MSN: 1P

ACCN: S080139

HUANGPU NAVAL BASE + SHIPYARD

WAC NO : 0614 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75B

CH 230510N 1132442E
NPIC NO : - 2-B
COMIREX NO: []

25X1
25X1

HUANGPU NAVAL BASE + SHIPYARD

WAC NO : 0614 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 75E

CH 230510N 1132442E
NPIC NO : - 2-B
COMIREX NO: []

25X1
25X1

NPIC MEMO [] 19 MAY 77 []

SEC CLASS: 14B MSN: [] 2P

ACCN: S080140

MURMASHI KRUG DF FACILITY

WAC NO : 0051 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25A

UR 684653N 0325506E
NPIC NO : - 14
COMIREX NO: []

25X1
25X1

MURMASHI RADIO COMMO RCVR KRUG SUPT ANT CONST

WAC NO : 0051 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 684648N 0325844E
NPIC NO : - 15-C
COMIREX NO:

25X1
25X1

MURMASHI RADIO COMMO XMTR KRUG SUPT ANT CONST

WAC NO : 0051 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 25D

UR 684630N 0330550E
NPIC NO : - 33-A1
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5164-77 19 MAY 77

SEC CLASS: 05G MSN: 1P

ACCN: S080141

NIKOLAYEVKA MILITARY BARRACKS AL1

WAC NO : 0203 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

UR 500400N 1274000E
NPIC NO : - 208
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5165-77 19 MAY 77

SEC CLASS: 05G MSN: 1P

ACCN: S080142

MALAYA SAZANKA ARMY BARRACKS AL1

WAC NO : 0203 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

UR 511300N 1280350E
NPIC NO : - 16-A1
COMIREX NO: []

25X1
25X1

1683
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA NBRG NDA07-5166-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080143

BELOGORSK ARMY BARRACKS AL7 + HEADQUARTERS UR 505455N 1282735E
WAC NO : 0203 BE/OBJ NO: NPIC NO : - 14-C3
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5167-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080144

BELOGORSK ARMY BARRACKS TOM RIVER AL8 UR 505520N 1282522E
WAC NO : 0203 BE/OBJ NO: NPIC NO : - 14-H2
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5168-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080145

LENINSKOYE MILITARY BARRACKS AL1 UR 475822N 1323702E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 203-A
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5169-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080146

BABSTOVO ARMY BARRACKS AL1 UR 480725N 1322808E
WAC NO : 0203 BE/OBJ NO: NPIC NO : - 2-B
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5158-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080147

IASI ARMY BARRACKS EAST 2 RO 470955N 0273731E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 30-B
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5159-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080148

MEDGIDIA ARMY BARRACKS 2 RO 441440N 0281530E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 105-A1
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5160-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080149

MEDGIDIA ARMY BARRACKS 1 RO 441409N 0281700E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 105-A2
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

1684
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA	NBRG	NDA07-5161-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080150
		BISTRITA ARMY BARRACKS					
		WAC NO : 0251	BE/OBJ NO: []	RO	470800N 0243050E		25X1
		IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 240-A4			25X1
				COMIREX NO: []			
DIA	NBRG	NDA07-5162-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080151
		BUCCURESTI ARMY BARRACKS 70					
		WAC NO : 0251	BE/OBJ NO: []	RO	442718N 0261305E		25X1
		IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 18-H1			25X1
				COMIREX NO: []			
DIA	NBRG	NDA07-5163-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080152
		PIATRA NEAMT ARMY BARRACKS 1					
		WAC NO : 0251	BE/OBJ NO: []	RO	465459N 0262359E		25X1
		IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 189-C			25X1
				COMIREX NO: []			
DIA	NBRG	NDA07-5170-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080153
		MURFATLAR ARMY BARRACKS 1					
		WAC NO : 0250	BE/OBJ NO: []	RO	441052N 0282454E		25X1
		IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 148			25X1
				COMIREX NO: []			
DIA	NBRG	NDA07-5171-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080154
		TOPRAISAR ARMY BARRACKS 1					
		WAC NO : 0250	BE/OBJ NO: []	RO	440719N 0282808E		25X1
		IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 86			25X1
				COMIREX NO: []			
DIA	NBRG	NDA07-5172-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080155
		MIHAIL KOGALNICEANU ARMY BARRACKS 1/TRNG AREA					
		WAC NO : 0250	BE/OBJ NO: []	RO	442130N 0282830E		25X1
		IDHS CODE: []	EPF CAT : 35A	NPIC NO : - 40-A			25X1
				COMIREX NO: []			
		MIHAIL KOGALNICEANU ARMY BARRACKS 1/TRNG AREA					
		WAC NO : 0250	BE/OBJ NO: []	RO	442130N 0282830E		25X1
		IDHS CODE: []	EPF CAT : 35B	NPIC NO : - 40-A			25X1
				COMIREX NO: []			
DIA	NBRG	NDA07-5173-77	19 MAY 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080156
		GALATI ARMY BARRACKS 1					
		WAC NO : 0250	BE/OBJ NO: []	RO	452810N 0280120E		25X1
				NPIC NO : - 26-A4			

25X1

1685
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:		25X1
DIA	NBRG	NDA07-5174-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080157
	BUCURESTI ARMY BARRACKS 62/63/64 + HQ DIV			RO 442315N 0260849E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 15-A		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5175-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080158
	BACAU ARMY BARRACKS + DEPOT 3/4/5/6			RO 463336N 0265333E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 6-C		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
	BACAU ARMY BARRACKS + DEPOT 3/4/5/6			RO 463336N 0265333E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 6-C		25X1
	IDHS CODE: []	EPF CAT : 35F	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5176-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080159
	TIMISOARA ARMY BARRACKS CHISODA 11			RO 454242N 0211312E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 116-B		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5177-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080160
	SIMLEU SILVANIEI ARMY BARRACKS 1			RO 471406N 0224939E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 248-A		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5178-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080161
	BOTOSANI ARMY BARRACKS 6			RO 474346N 0264018E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 204-B1		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5179-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080162
	DEJ ARMY BARRACKS 3 + HEADQUARTERS DIVISION			RO 470810N 0235332E	
	WAC NO : 0251	BE/OBJ NO: []	NPIC NO : - 201		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:		25X1
DIA	NBRG	NDA07-5180-77	19 MAY 77	SEC CLASS: 05B MSN:	1P ACCN: S080163

1686 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

BAIA MARE ARMY BARRACKS SOUTH 1

WAC NO : 0251 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

RO 473820N 0233450E
NPIC NO : - 7-R2
COMIREX NO: []

25X1

25X1

NPIC MEMO

[] 23 MAY 77 []

SEC CLASS: 13 MSN: []

8P

ACCN: S080164

25X1

25X1

OSTROV/GOROKHOVKA AIRFIELD RAIL CARS

WAC NO : 0153 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05A

UR 571748N 0282555E
NPIC NO : - 49
COMIREX NO: []

25X1

25X1

OSTROV/GOROKHOVKA AIRFIELD RAIL CARS

WAC NO : 0153 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 85B

UR 571748N 0282555E
NPIC NO : - 49
COMIREX NO: []

25X1

25X1

IMAGERY OF THE AREAS ADJACENT TO OSTROV/GOROKHOVKA AIRFIELD WAS REVIEWED TO DETERMINE IF RAIL CARS

THERE WERE SIMILAR TO THOSE SEEN ADJACENT TO BELAYA TSERKOV AIRFIELD.

[] PROVIDED THE GREATEST DETAIL FOR THE RAIL CARS AND WAS UTILIZED FOR THIS PROJECT.

25X1

NPIC MEMO

[] 23 MAY 77 []

SEC CLASS: 13 MSN: []

11P

ACCN: S080165

25X1

25X1

BELAYA TSERKOV AIRFIELD RAIL CARS

WAC NO : 0233 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 05A

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

25X1

25X1

BELAYA TSERKOV AIRFIELD RAIL CARS

WAC NO : 0233 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 85B

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

25X1

25X1

THIS MEMO PROVIDES PHOTO ENLARGEMENTS SHOWING THE RAIL CARS IN GREATER DETAIL AT BELAYA TSERKOV AIRFIELD. ONE ADDITIONAL PHOTOGRAPH HAS BEEN ANNOTATED SHOWING THE TWO ANTENNA RAIL CARS AND THE TWO RAIL CARS WITH THE UNIDENTIFIED ROOF CONFIGURATIONS.

DIA IIM

583-52899-77 17 MAY 77 []

SEC CLASS: 13 MSN: []

1P

ACCN: S080166

25X1

PETROVSKOYE CIVIL DEFENSE STORAGE BKR PROB

WAC NO : 0154 []
IDHS CODE: [] EPF CAT : 10A

UR 570020N 0391700E
NPIC NO :
COMIREX NO:

25X1

25X1

25X1

1687
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA	IIM	5B3-52932-77	18 MAY 77		SEC CLASS: 13	MSN: []	2P	ACCN: S080169	25X1
		PETROZAVODSK AIRFIELD NW HANGARETTES			UR	615309N 0340920E			
		WAC NO : 0102		BE/OBJ NO: []		NPIC NO : - 15-A			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-52941-77	18 MAY 77		SEC CLASS: 13	MSN: []	2P	ACCN: S080170	25X1
		SIVERSKIY AIRFIELD HANGARETTES			UR	592120N 0300203E			
		WAC NO : 0153		BE/OBJ NO: []		NPIC NO : - 70			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-52942-77	18 MAY 77		SEC CLASS: 13	MSN: []	1P	ACCN: S080171	25X1
		VYBORG AIRFIELD EAST HANGARETTES			UR	604028N 0291022E			
		WAC NO : 0103		BE/OBJ NO: []		NPIC NO : - 39-A			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-52946-77	18 MAY 77		SEC CLASS: 13	MSN: []	1P	ACCN: S080172	25X1
		HAAPSAU AIRFIELD HANGARETTES			UR	585441N 0232928E			
		WAC NO : 0153		BE/OBJ NO: []		NPIC NO : - 16-C			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-52949-77	18 MAY 77		SEC CLASS: 13	MSN: []	2P	ACCN: S080173	25X1
		KRUSTPILS AIRFIELD HANGARETTES			UR	563206N 0255330E			
		WAC NO : 0153		BE/OBJ NO: []		NPIC NO : - 32-C			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-52953-77	20 MAY 77		SEC CLASS: 13	MSN: []	1P	ACCN: S080174	25X1
		PARNU AIRFIELD HANGARETTES			UR	582509N 0242821E			
		WAC NO : 0153		BE/OBJ NO: []		NPIC NO : - 51-A			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-52957-77	23 MAY 77		SEC CLASS: 13	MSN: []	2P	ACCN: S080175	25X1

1688

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

MOSKVA/VOSTRYAKOVO GCC RELOCATION SITE BUNKER UR 552120N 0374250E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 154-B
IDHS CODE: EPF CAT : 10A COMIREX NO:

25X1
25X1

DIA IIM 5B3-52962-77 23 MAY 77 SEC CLASS: 13 MSN: 1P ACCN: S080176 25X1

RIGA/RUMBULA AIRFIELD HANGARETTES UR 565300N 0241337E
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 63-A
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

DIA IIM 5B3-52964-77 23 MAY 77 SEC CLASS: 13 MSN: 1P ACCN: S080177 25X1

TAPA AIRFIELD HANGARETTES UR 591412N 0255718E
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 77
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

DIA IIM 5B3-52968-77 23 MAY 77 SEC CLASS: 13 MSN: 1P ACCN: S080178 25X1

VAINODE AIRFIELD HANGARETTES UR 562420N 0215314E
WAC NO : 0152 BE/OBJ NO: NPIC NO : - 7
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

NAVY BIIR RNG23-5001-77 APR 77 SEC CLASS: 04 MSN: 9P ACCN: S080179

MISSILES, SA-N-4 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 406 COMIREX NO:

25X1

THE SA-N-4 MISSILE IS A SHORT-RANGE ANTI-AIRCRAFT POINT-DEFENSE WEAPON SYSTEM WHICH IS EMPLOYED AS THE PRIMARY AIR-DEFENSE SYSTEM FOR SMALL SOVIET SURFACE COMBATANTS SUCH AS KRIVAK CLASS DDS AND NANUCHKA CLASS PGGs. LARGER SOVIET COMBATANTS FITTED WITH THE SA-N-4 EMPLOY THE SYSTEM TO SUPPLEMENT THEIR LONG-RANGE AIR-DEFENSE SYSTEMS.

THIS REPORT PROVIDES AN IMAGERY-DERIVED ANALYSIS OF THE SHIP-LAUNCHED SA-N-4 NAVAL SURFACE-TO-AIR MISSILE SYSTEM (SAM) BASED ON GROUND AND AERIAL PHOTOGRAPHS. IT INCLUDES A SCALE DRAWING OF THE SA-8 GECKO SURFACE-TO-AIR MISSILE (THE SA-N-4 MISSILE APPEARS TO BE IDENTICAL TO THE SA-8 MISSILE), PROVISIONAL SCALE DRAWINGS OF THE SA-N-4 LAUNCHER, SELECTED ANNOTATED PHOTOGRAPHS OF THE GECKO AND THE SA-N-4 MISSILE, AND PHOTOGRAPHS OF SHIP CLASSES EQUIPPED WITH THE SA-N-4 SYSTEM.

THE INTELLIGENCE CUTOFF DATE FOR THIS REPORT IS MARCH 1977.

CIA REPT IS10011J-77 MAY 77 SEC CLASS: 24 MSN: 21P ACCN: S080180 25X1

MISSILES, SS-16/SS-X-20 MOBILE UNITS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : COMIREX NO:

25X1

1689
TOP SECRET CHESS RUFF

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1
20A1

IDHS CODE: EPF CAT : 40A COMIREX NO:
MISSILES, SS-16/SS-X-20 MOBILE UNITS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

THIS REPORT CONTAINS A DESCRIPTION OF SS-X-16/20 ASSOCIATED GROUND SUPPORT EQUIPMENT AND, WHEN POSSIBLE, GIVES THE FUNCTIONS OF THE GSE. IT ALSO CONTAINS A DESCRIPTION OF SEVERAL UNIQUE BUILDINGS THAT ARE BEING CONSTRUCTED AT SITES THAT ARE BEING MODIFIED TO SUPPORT SS-X-16/20 SYSTEMS. THE METHODOLOGY USED TO DETERMINE THE TO + E OF SS-X-16/20 UNITS AT BATTERY, BATTALION, AND REGIMENTAL LEVELS AS WELL AS GRAPHICS TO ILLUSTRATE HOW SUCH UNITS COULD BE HOUSED IN THE UNIQUE BUILDINGS IS PROVIDED.*

25X1

1690
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY BIIR RAC24-5005-77 APR 77 SEC CLASS: 08B MSN: 13P ACCN: S080182

MILITARY, UAZ-469 UTILITY TRUCK
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION REPORT (BIIR) PROVIDES A DETAILED DESCRIPTION OF THE UAZ-469, 0.6 METRIC-TON, 4 X 4, UTILITY TRUCK. THIS VEHICLE IS THE LATEST ADDITION TO THE SOVIET LIGHT VEHICLE CATEGORY CLASS AND IS THE REPLACEMENT VEHICLE FOR THE SOVIET GAZ/UAZ-69, 4 X 4, UTILITY TRUCK. THIS REPORT CONTAINS EIGHT PHOTOGRAPHS, TWO LINE DRAWINGS, AN ORTHOGRAPHIC DRAWING WITH DIMENSIONS, AND REFERENCE DATA. THE INFORMATION IS CURRENT AS OF JANUARY 1977.

CIA REPT IS10009K-77 MAY 77 SEC CLASS: 13 MSN: 16P ACCN: S080183
MISSILES, SLBM SYSTEM NEW POSS UR

25X1

25X1

1691
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO :	NPIC NO :
IDHS CODE :	EPF CAT : 40G	COMIREX NO :
SEVERODVINSK SHIPYARD 402 SSBN CLASS NEW U/C		UR 643438N 0394832E
WAC NO : 0092	BE/OBJ NO :	NPIC NO : - 7-A
IDHS CODE :	EPF CAT : 75E	COMIREX NO :
NIKOLAYEV SHIPYARD 444 SLBM POP-UP TEST BARGE		UR 465705N 0315816E
WAC NO : 0250	BE/OBJ NO :	NPIC NO : - 46-B
IDHS CODE :	EPF CAT : 75E	COMIREX NO :
BALAKLAVA MTC SLBM POP-UP TEST PROGRAM PREP		UR 443014N 0333122E
WAC NO : 0250	BE/OBJ NO :	NPIC NO : - 3-A
IDHS CODE :	EPF CAT : 40G	COMIREX NO :
NENOKSA NAVAL MTC ASSEMBLY/CHECKOUT BLDG NEW		UR 643858N 0391125E
WAC NO : 0092	BE/OBJ NO :	NPIC NO : - 21-D1
IDHS CODE :	EPF CAT : 40G	COMIREX NO :

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

THIS REPORT PRESENTS THE EVIDENCE FOR THE DEVELOPMENT OF A NEW SOVIET SLBM SYSTEM. IT PROVIDES PHOTOGRAPHS OF SOME OF THE KEY INDICATORS AND INCLUDES A CHART THAT ILLUSTRATES THE TIMING OF DEVELOPMENTS AT THE INSTALLATIONS INVOLVED. IT ALSO DISCUSSES OTHER EVIDENCE WHICH HAS BEEN POSTULATED AS INDICATING A NEW SLBM SYSTEM BUT WHICH IS BELIEVED TO BE ASSOCIATED WITH EXISTING SUBMARINE CONSTRUCTION PROGRAMS.

CIA NOTE ISSN0004J-77 13 MAY 77 [] SEC CLASS: 25 MSN: 14R ACCN: 5080184 25X1

SHUANGTA SSM FIELD POSITIONS CSS-1 LAUNCH ACT	CH 3737 N 10247 E
WAC NO : 0383	NPIC NO :
IDHS CODE :	COMIREX NO :
AIRCRAFT, LIFTING BODY A/C TEST MODEL IDENT	UR
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
BISTRITSA COMSAT STATION INTERSPUTNIK	BU 422920N 0232710E
WAC NO : 0322	NPIC NO : - 85-K2
IDHS CODE :	COMIREX NO :
MILITARY, RIVER/GAP CROSSING EQUIP UPGRADE	CH
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
BULGAN ARMY BKS SOV TANK REGT/MTRZD RIFLE CO	MG 483454N 1032803E
WAC NO : 0241	NPIC NO : - 7
IDHS CODE :	COMIREX NO :
KRASNOYARSK TRUCK TRAILER PLANT U/C	UR 5600 N 09256 E
WAC NO : 0159	NPIC NO :
IDHS CODE :	COMIREX NO :
PLAINE DES JARRES MILITARY/CIVILIAN CONST	LA 1927 N 10310 E
WAC NO : 0617	NPIC NO :
IDHS CODE :	COMIREX NO :

25X1

25X1
25X1

25X1
25X1

25X1

1692

TOP SECRET CHESS RUFF

25X1

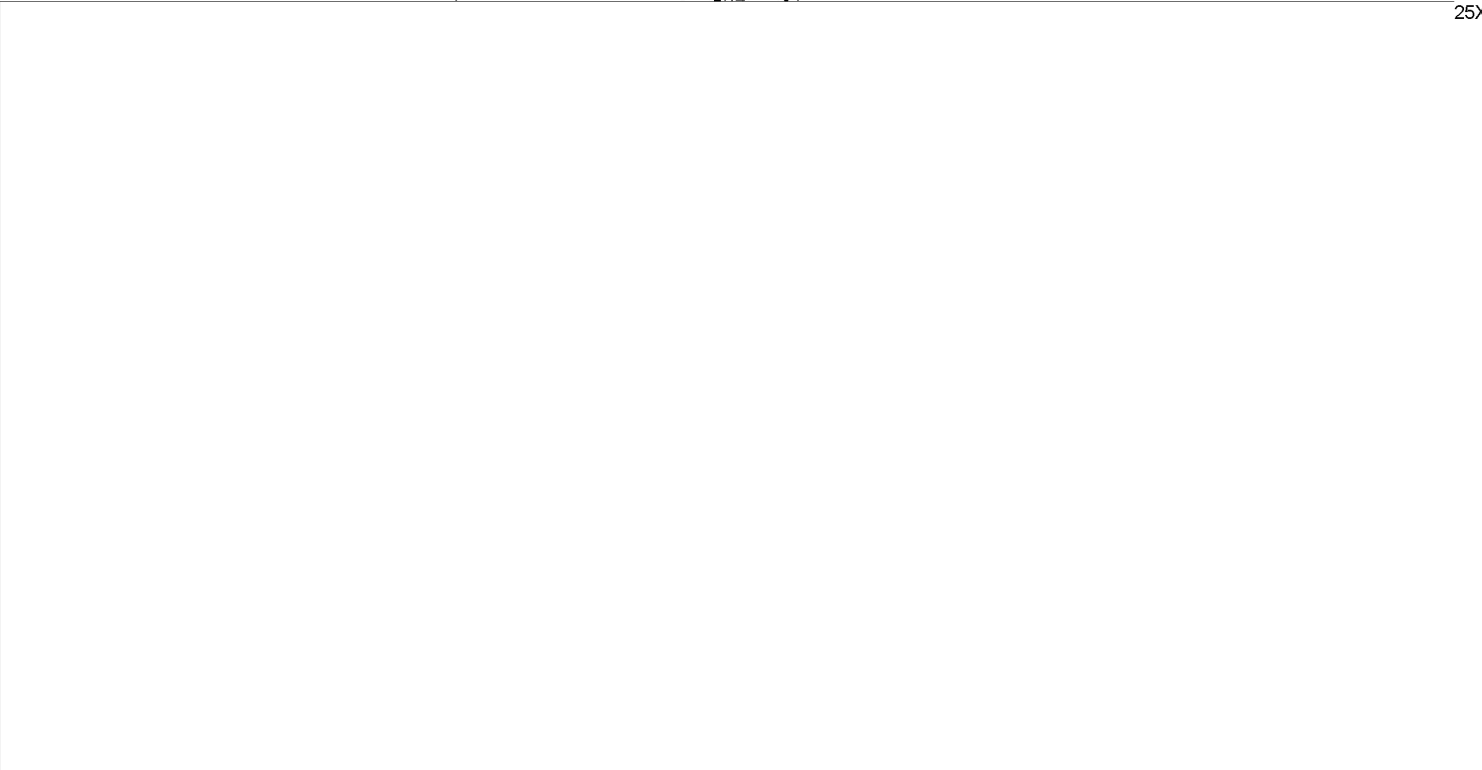


TOP SECRET CHESS RUFF



25X1

PLAINE DES JARRES MILITARY/CIVILIAN CONST LA 1927 N 10310 E
WAC NO : 0617 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:



25X1

1693
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MCS MCS002-77 MAY 77 SEC CLASS: 14 MSN: 80P ACCN: S080187 25X1

MCS 4348-1
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 60A COMIREX NO:

SAC STDY GOALKEEPER-77 01 MAY 77 SEC CLASS: 05BX MSN: 67P ACCN: S080188

PROJECT GOALKEEPER SPECIAL REPORT STRAT AREA
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 156 COMIREX NO:
MILITARY, AIR DEFENSE SYSTEM WARSAW PACT PL
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1

MILITARY, AIR DEFENSE SYSTEM WARSAW PACT CZ
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, AIR DEFENSE SYSTEM WARSAW PACT HU
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, AIR DEFENSE SYSTEM WARSAW PACT RO
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, AIR DEFENSE SYSTEM WARSAW PACT BU
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS IS A SPECIAL REPORT IN A SERIES OF COMPREHENSIVE STUDIES OF THE AIR DEFENSE SYSTEM OF THE WARSAW PACT COUNTRIES. IN THIS STUDY THE WARSAW PACT STRATEGIC AREA IS CONSIDERED TO INCLUDE THE SOVIET AND NON-SOVIET AIR DEFENSE FORCES LOCATED IN POLAND CZECHOSLOVAKIA, HUNGARY, ROMANIA, AND BULGARIA. THIS REPORT EVALUATES OVERALL DEFENSIVE CAPABILITIES AND SUGGESTS SOME CONSIDERATIONS FOR DEFENSE SUPPRESSION AND ROUTE PLANNING. THE DETAILED ANALYSIS SUPPORTING THESE CONCLUSIONS IS NOT INCLUDED

25X1

1694
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IN THIS REPORT, BUT CAN BE PROVIDED TO SPECIFIC AGENCIES UPON REQUEST. THE INTELLIGENCE CUTOFF DATE IS 1 MAY 1977.*

25X1

DIA	NBRG	NDA07-5245-77	23 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080190	
		BARANO ORENBURGSKOYE ARMY BARRACKS AL2		UR	442005N 1313055E			
		WAC NO : 0282	BE/OBJ NO: []	NPIC NO : -	4-A8			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5238-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080191	
		ULAN UDE ARMY BARRACKS AL3		UR	515111N 1075329E			
		WAC NO : 0201	BE/OBJ NO: []	NPIC NO : -	18-A3			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5239-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080192	
		OBLUCHYE ARMY BARRACKS AL1		UR	485856N 1310356E			
		WAC NO : 0203	BE/OBJ NO: []	NPIC NO : -	22-B			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5240-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080193	
		VVEDENOVKA ARMY BARRACKS AL1		UR	511540N 1281500E			
		WAC NO : 0203	BE/OBJ NO: []	NPIC NO : -	27-J1			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5241-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080194	

1695
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

BARANO ORENBURGSKOYE ARMY BARRACKS AL1 UR 442145N 1312710E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 4-I
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5242-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080195

NOVOGEORGIYEVKA ARMY BARRACKS AL1 UR 440128N 1312409E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 201-A
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5243-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080196

ULAANBAATAR SAM SUPPORT FACILITY MG 475632N 1065826E
WAC NO : 0286 BE/OBJ NO: NPIC NO : - 1-I
IDHS CODE: EPF CAT : 40C COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5246-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080197

TBILISI ARMY BARRACKS NAVTLUG AL3/HQS DIV UR 414058N 0445038E
WAC NO : 0325 BE/OBJ NO: NPIC NO : - 61-L
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5247-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080198

TBILISI ARMY BARRACKS SE AL21 UR 414135N 0444936E
WAC NO : 0325 BE/OBJ NO: NPIC NO : - 61-N
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5248-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080199

RUSTAVI ARMY BARRACKS KECHVELLI ALS UR 411945N 0451620E
WAC NO : 0325 BE/OBJ NO: NPIC NO : - 52-B1
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5249-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080200

TBILISI ARMY BARRACKS CENTRAL AL16 UR 414350N 0444700E
WAC NO : 0325 BE/OBJ NO: NPIC NO : - 108-A
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1.1

DIA NBRG NDA07-5250-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080201

TBILISI ARMY BARRACKS EAST AL19 UR 414145N 0445000E

1696
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
23A1

WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 64-E1
IDHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1
23A1

DIA NBRG NDA07-5251-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080202

TAKHTA BAZAR ARMY BARRACKS WEST AL1
WAC NO : 0337 BE/OBJ NO: [] UR 360330N 0624300E
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 22
COMIREX NO: []

25X1
23A1

DIA NBRG NDA07-5252-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080203

TEDZHEN ARMY BARRACKS AL1/TRAINING AREA TA2
WAC NO : 0337 BE/OBJ NO: [] UR 372103N 0603159E
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 18-C
TEDZHEN ARMY BARRACKS AL1/TRAINING AREA TA2
WAC NO : 0337 BE/OBJ NO: [] UR 372103N 0603159E
IDHS CODE: [] EPF CAT : 35B NPIC NO : - 18-C
COMIREX NO: []

25X1
23A1

DIA NBRG NDA07-5253-77 19 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080204

NEBIT DAG ARMY BARRACKS AL1
WAC NO : 0338 BE/OBJ NO: [] UR 392958N 0542301E
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 12-6
COMIREX NO: []

25X1
23A1

DIA NBRG NDA07-5244-77 23 MAY 77 SEC CLASS: 05B MSN: 1P ACCN: S080205

BERAT ARMY BARRACKS 1
WAC NO : 0322 BE/OBJ NO: [] AL 404207N 0195825E
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 3-A4
COMIREX NO: []

25X1
23A1

DIA NBRG NDA07-5204-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080206

CHANGCHUN MILITARY AREA 1
WAC NO : 0290 BE/OBJ NO: [] CH 435200N 1252100E
IDHS CODE: [] EPF CAT : 35 NPIC NO :
COMIREX NO:

25X1
23A1

DIA NBRG NDA07-5205-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080207

CHANGCHUN ARMY BARRACKS AL7 + HEADQUARTERS
WAC NO : 0290 BE/OBJ NO: [] CH 435355N 1251824E
IDHS CODE: [] EPF CAT : 35A NPIC NO : - 28-N
COMIREX NO: []

25X1
23A1

DIA NBRG NDA07-5206-77 19 MAY 77 SEC CLASS: 05G MSN: 1P ACCN: S080208

1697
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CHANGCHUN ARMY BARRACKS WEST AL13

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 435231N 1251450E
NPIC NO : - 28-E7
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5207-77 19 MAY 77

SEC CLASS: 056 MSN: 1P

ACCN: S080209

CHANGCHUN ARMY BARRACKS SE AL14

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 435130N 1252030E
NPIC NO : - 28-K4
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5208-77 19 MAY 77

SEC CLASS: 056 MSN: 1P

ACCN: S080210

TATUN ARMY BARRACKS AL1

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 434655N 1250911E
NPIC NO : - 161
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5209-77 19 MAY 77

SEC CLASS: 056 MSN: 1P

ACCN: S080211

CHANGCHUN ARMY BARRACKS AL11

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 434920N 1251635E
NPIC NO : - 28-E9
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5210-77 77 MAY 77

SEC CLASS: 056 MSN: 1P

ACCN: S080212

CHANGCHUN MILITARY AREA 2

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35

CH 435100N 1252200E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5211-77 19 MAY 77

SEC CLASS: 056 MSN: 1P

ACCN: S080213

CHANGCHUN ARMY BARRACKS AL3 + HQ INFANTRY DIV

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 435055N 1251605E
NPIC NO : - 28-E2
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5212-77 19 MAY 77

SEC CLASS: 056 MSN: 1P

ACCN: S080214

CHANGCHUN ARMY BARRACKS + TRAINING AREA AL10

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35A

CH 435240N 1251310E
NPIC NO : - 28-B4
COMIREX NO: []

25X1
25X1

CHANGCHUN ARMY BARRACKS + TRAINING AREA AL10

WAC NO : 0290 BE/OBJ NO: []
IDHS CODE: [] EPF CAT : 35B

CH 435240N 1251310E
NPIC NO : - 28-B4
COMIREX NO: []

25X1
25X1

1698

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA	NBRG	NDA07-5213-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080215
		CHANGCHUN ARMY BARRACKS WEST AL4			CH 435351N 1251448E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO : - 28-R6		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5214-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080216
		CHANGCHUN ARMY BARRACKS AL6			CH 435352N 1251812E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO : - 28-N1		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5215-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080217
		CHANGCHUN ARMY BARRACKS NNE AL15			CH 435540N 1251950E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO : - 28-A3		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO:		25X1
DIA	NBRG	NDA07-5216-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080218
		KAIYUAN ARMY BARRACKS AL1			CH 423150N 1240320E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO : - 40-C1		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5217-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080219
		LIAOYUAN MILITARY AREA 1			CH 425500N 1250900E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35		COMIREX NO:		25X1
DIA	NBRG	NDA07-5218-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080220
		LIAOYUAN ARMY BARRACKS EAST AL1 + HQ INF DIV			CH 425405N 1250932E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO : - 141-B		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1
DIA	NBRG	NDA07-5219-77	19 MAY 77	SEC CLASS: 056	MSN:	1P	ACCN: S080221
		LIAOYUAN ARMY BARRACKS SOUTH AL3			CH 425129N 1250802E		
		WAC NO : 0290	BE/OBJ NO: []		NPIC NO : - 141-A		25X1
		IDHS CODE: []	EPF CAT : 35A		COMIREX NO: []		25X1

1699
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

DIA	NBRG	NDA07-5220-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080222
		TUNGFENG ARMY BARRACKS NORTH AL1		CH	424120N 1253150E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : - 65-A			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5221-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080223
		HAILUNG ARMY BARRACKS WEST AL1		CH	423846N 1254908E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : - 37-A1			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5222-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080224
		WEICHING ARMY BARRACKS SOUTH AL1		CH	424640N 1251620E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : - 141-D1			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5223-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080225
		LIAOYUAN ARMY BARRACKS NE AL2		CH	425625N 1251240E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : - 141-B1			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5224-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080226
		TUNGHUA MILITARY AREA 1		CH	4141 N 12555 E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : -			25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5225-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080227
		TUNGHUA ARMY BARRACKS AL2 + HQ INFANTRY DIV		CH	414246N 1255856E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : - 66-F			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5226-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080228
		TUNGHUA ARMY BARRACKS NE AL4		CH	414415N 1255716E		
		WAC NO : 0290	BE/OBJ No: []	NPIC NO : - 66-H1			25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []			25X1
DIA	NBRG	NDA07-5227-77	19 MAY 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080229

TOP SECRET CHESS RUFF



25X1



TOP SECRET CHESS RUFF



25X1
25X1

LIUHO ARMY BARRACKS EAST AL2

WAC NO : 0290 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 35A

CH 421600N 1255030E
NPIC NO : - 47-C2
COMIREX NO: [REDACTED]

25X1
25X1

DIA NBRG NDA07-5228-77 19 MAY 77

SEC CLASS: 05G MSN: 1P

ACCN: S080230

TUNGHUA ARMY BARRACKS NE AL5

WAC NO : 0290 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 35A

CH 414542N 1255911E
NPIC NO : - 66-H2
COMIREX NO: [REDACTED]

25X1
25X1

DIA NBRG NDA06-5058-77 19 MAY 77

SEC CLASS: 05B MSN: 1P

ACCN: S080231

NIKOLAYEV SHIPYARD FACILITIES APPROACHES

WAC NO : 0250 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 75

UR 4655 N 03200 E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5059-77 19 MAY 77

SEC CLASS: 05B MSN: 1P

ACCN: S080232

NIKOLAYEV SHIPYARD NOSENKO 444

WAC NO : 0250 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 75E

UR 465705N 0315816E
NPIC NO : - 46-B
COMIREX NO: [REDACTED]

25X1
25X1

DIA NBRG NDA06-5060-77 19 MAY 77

SEC CLASS: 05B MSN: 1P

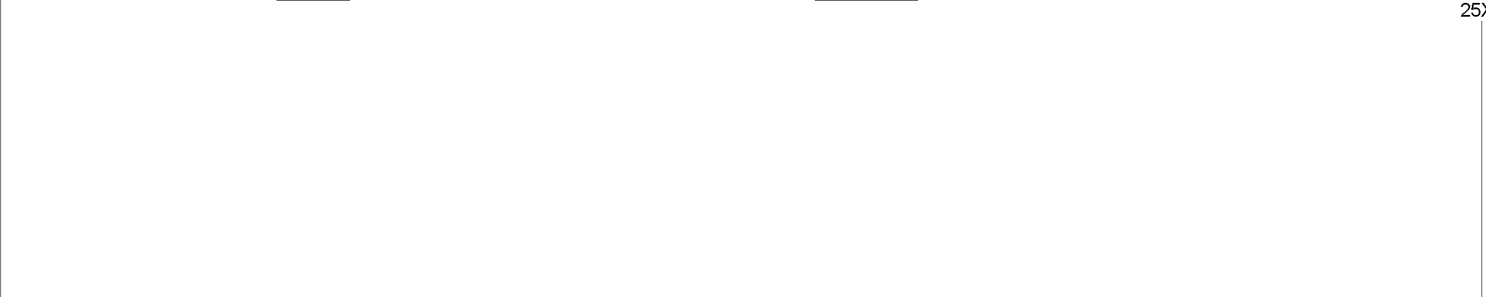
ACCN: S080233

NIKOLAYEV SHIPYARD NORTHERN 61 KOMMUNA 445

WAC NO : 0250 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 75E

UR 465840N 0320019E
NPIC NO : - 46-C
COMIREX NO: [REDACTED]

25X1
25X1
25X1



1701

TOP SECRET CHESS RUFF



25X1

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TOP SECRET CHESS RUFF



25X1



25X1

NPIC SR

SR026-77

MAY 77



SEC CLASS: 14D MSN:

3P

ACCN: S08025C

25X1

NADAROVSKIY ARMY BARRACKS BILYUTIN AL1	UR	494935N 1170535E
WAC NO : 0202	BE/OBJ NO:	NPIC NO : - 204
IDHS CODE: [redacted]	EPF CAT : 35A	COMIREX NO: [redacted]
MILITARY, CHINA-USSR BORDER	SOVIET DEF NEW	CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:
MILITARY, USSR-CHINA BORDER	SOVIET DEF NEW	UR
WAC NO :	BE/OBJ NO:	NPIC NO :

25X1
25X1.1

1704

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

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

[] THE SOVIETS CONSTRUCTED SEVEN TANK TURRET STATIC DEFENSIVE FIRING POSITIONS AND EIGHT HARDENED AUTOMATIC WEAPONS FIRING POSITIONS ON A RIDGELINE ALONG THE WESTERN PERIMETER OF NADAROVSKIY ARMY BARRACKS BILITUY AL-1 WHICH IS ON THE SINO-SOVIET BORDER. THIS IS THE FIRST IDENTIFICATION OF TANK TURRET CONSTRUCTION ADJACENT TO A MILITARY BARRACKS AND THE FIRST TIME THAT HARDENED AUTOMATIC WEAPONS FIRING POSITIONS HAVE BEEN INCORPORATED INTO THE DEFENSIVE PLAN. THESE POSITIONS ARE PROBABLY PART OF THE CONTINUING CONSTRUCTION PROGRAM TO UPGRADE THE DEFENSES ALONG THIS SECTION OF THE SINO-SOVIET BORDER.*

25X1

NPIC PIR PIR011-77 MAY 77 [] SEC CLASS: 14E MSN: [] 8P ACCN: S080251 25X1

TEILINGHA SSM SITE 1 NEW U/C
WAC NO : [] BE/OBJ NO: [] CH 373358N 0964952E
IDHS CODE: [] EPF CAT : 40 NPIC NO : - 71
COMIREX NO: []
TEILINGHA SSM SITE 2 NEW U/C
WAC NO : 0332 BE/OBJ NO: [] CH 372940N 0972056E
IDHS CODE: [] EPF CAT : 40 NPIC NO : - 72-B
COMIREX NO: []

25X1
25X1
25X1

TWO SSM LAUNCH SITES ARE UNDER CONSTRUCTION IN WEST CHINA, 15 NAUTICAL MILES (NM) NORTH OF TE-LING-HA AND 145 NM WEST-SOUTHWEST OF LIU-CHING-KOU SSM LAUNCH COMPLEX. THE TWO LAUNCH SITES ARE PART OF A WIDELY SEPARATED SERIES OF CONSTRUCTION SITES IN THE TE-LING-HA AREA WITH CAVES AND TUNNELS. TOGETHER, THE AREAS WHERE CONSTRUCTION IS UNDERWAY APPEAR TO MAKE UP A LAUNCH SITE GROUP WHICH WILL EVENTUALLY HAVE FOUR SOFT LAUNCH PADS, THE PROBABLE PROPELLANT STORAGE AREA, UNDERGROUND COMMAND POST, AND HARDENED COMMUNICATIONS FACILITY - COMMON FEATURES OF LAUNCH SITE GROUPS IN CHINA - CAN ALREADY BE IDENTIFIED AT TE-LING-HA. EACH LAUNCH SITE AT TE-LING-HA CONTAINS A LARGE, DRIVE-THROUGH TUNNEL WITH RAIL GUIDES EXTENDING FROM THE ENTRANCES. THE RAIL GUIDES, 23 TO 36 METERS LONG AND SLIGHTLY LESS THAN A METER WIDE, ARE SET ON A CONCRETE APRON. A PROBABLE LAUNCH PAD APRON OF PACKED EARTH HAS BEEN IDENTIFIED AT EACH SITE. EACH LAUNCH SITE HAS TWO OR THREE LARGE, DRIVE-IN CAVES IN ADDITION TO THE TUNNEL.

NPIC PIR PIR010-77 MAY 77 [] SEC CLASS: 14 MSN: [] 9P ACCN: S080252 25X1

MILITARY, DIVERSION BRIGADES UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 35 COMIREX NO: []

25X1

PHOTOGRAPHY AND COLLATERAL SOURCES SUGGEST THAT EACH MILITARY DISTRICT IN THE SOVIET UNION MAY HAVE A DIVERSION BRIGADE, IN ADDITION, []

25X1
25X1

SOVIET AIRBORNE FORCES ARE GENERALLY REGARDED AS THE ELITE OF THE SOVIET ARMY. THEY ARE SPECIALLY

25X1

1705
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

SELECTED, POLITICALLY RELIABLE, HIGHLY TRAINED TROOPS THAT ARE KEPT IN A CONSTANT STATE OF READINESS. IN ADDITION TO THE REGULAR AIRBORNE TROOPS, THERE ARE OTHER SPECIAL FORCES WITH AIRBORNE CHARACTERISTICS, KNOWN AS DIVERSION BRIGADES. DIVERSION BRIGADES MAY COMPRISE 200 TO 500 SPECIALLY SELECTED MEN FROM REGULAR AIRBORNE TROOPS. THEY WOULD BE TASKED FOR COMMANDO-TYPE OPERATIONS DEEP IN ENEMY TERRITORY, SPECIAL OPERATIONS FOR THE KGB, RECONNAISSANCE, AND SABOTAGE. REGULAR TRAINING MAY BE CONDUCTED BY THE GRU. NINE SOVIET INSTALLATIONS HAVE BEEN IDENTIFIED WHICH HAVE PHOTOGRAPHIC SIGNATURES SIMILAR TO THOSE AT THE CONFIRMED DIVERSION BRIGADE BARRACKS

DIA IIM 5B3-52965-77 24 MAY 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S08025

25X1
25X1
25X1

VASALEMMA AIRFIELD HANGARETTES UR 591536N 0241227E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 86
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1
25X1

DIA IIM 5B3-52982-77 25 MAY 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S08025

25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 51 UR 554700N 0373230E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 46-I4
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

DIA IIM 5B1-52918-77 11 MAY 77 [] SEC CLASS: 14B MSN: [] 12P

ACCN: S08025

25X1

LENINGRAD ORDNANCE DEPOT UR 595910N 0302220E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-H4
IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

DIA IIM 5B1-52919-77 11 MAY 77 [] SEC CLASS: 14B MSN: [] 3P

ACCN: S08025

25X1

LENINGRAD MILITARY SUPPLY DEPOT DQ2 CIV PROB UR 595125N 0302600E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 102-U

25X1

1706
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

	IDHS CODE: []	EPF CAT : 80B	COMIREX NO: []		25X1
	LENINGRAD MILITARY SUPPLY DEPOT DG2 CIV PROB	UR 595125N 0302600E			
	WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 102-U		25X1
	IDHS CODE: []	EPF CAT : 35F	COMIREX NO: []		25X1
DIA IIM	5B3-52958-77	25 MAY 77	[]	SEC CLASS: 14 MSN: []	2P ACCN: S080259 25X1
	MOSKVA/KRASNYI OKTYABR GOC RELOCATION BUNKER	UR 553725N 0363030E			
	WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 34-F1		25X1
	IDHS CODE: []	EPF CAT : 10A	COMIREX NO: []		25X1
DIA IIM	5B3-52983-77	25 MAY 77	[]	SEC CLASS: 13 MSN: []	2P ACCN: S080260 25X1
	PETROPAVLOVSK/YELIZOVO AIRFIELD HANGARETTES	UR 530958N 1582710E			
	WAC NO : 0194	BE/OBJ NO: []	NPIC NO : - 11-A		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52970-77	25 MAY 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: S080261 25X1
	SOVETSKAYA GAVAN/MAYGATKA AIRFIELD	UR 485516N 1400156E			
	WAC NO : 0204	BE/OBJ NO: []	NPIC NO : - 29-V		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52978-77	25 MAY 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: S080262 25X1
	PRAVDINSK AIRFIELD HANGARETTES	UR 563119N 0432853E			
	WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 47		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B3-52969-77	25 MAY 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: S080263 25X1
	MIKHAYLOVKA/ZAVITAYA AIRFIELD	UR 495414N 1285425E			
	WAC NO : 0203	BE/OBJ NO: []	NPIC NO : - 111		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X1
DIA IIM	5B1-52977-77	23 MAY 77	[]	SEC CLASS: 14B MSN: []	4P ACCN: S080264 25X1
	SVERDLOVSK ARMY BARRACKS PYSHMA ALB	UR 565815N 0603620E			
	WAC NO : 0156	BE/OBJ NO: []	NPIC NO : - 26-72		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA IIM	5B2-52874-77	27 MAY 77	[]	SEC CLASS: 14B MSN: []	10P ACCN: S080265 25X1

1707

TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



25X1

BYD60SZCZ PORT COMPLEX WEST

WAC NO : 0169

IDHS CODE:

BE/OBJ NO:

EPF CAT : 75I

PL 530723N 0180017E

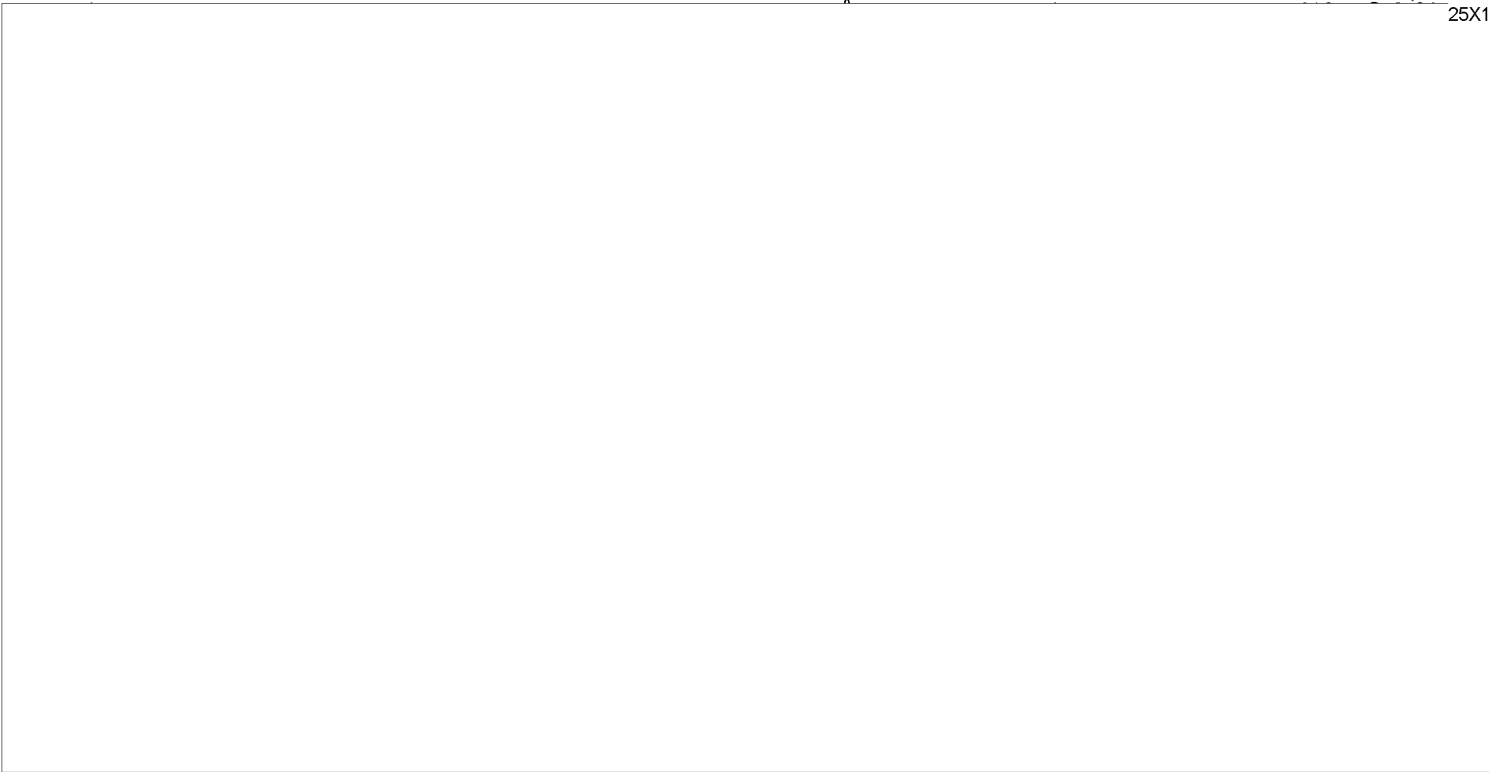
NPIC NO :

COMIREX NO:

25X1

25X1

25X1



1708

TOP SECRET CHESS RUFF



25X1

CHANNELS COUNTRY

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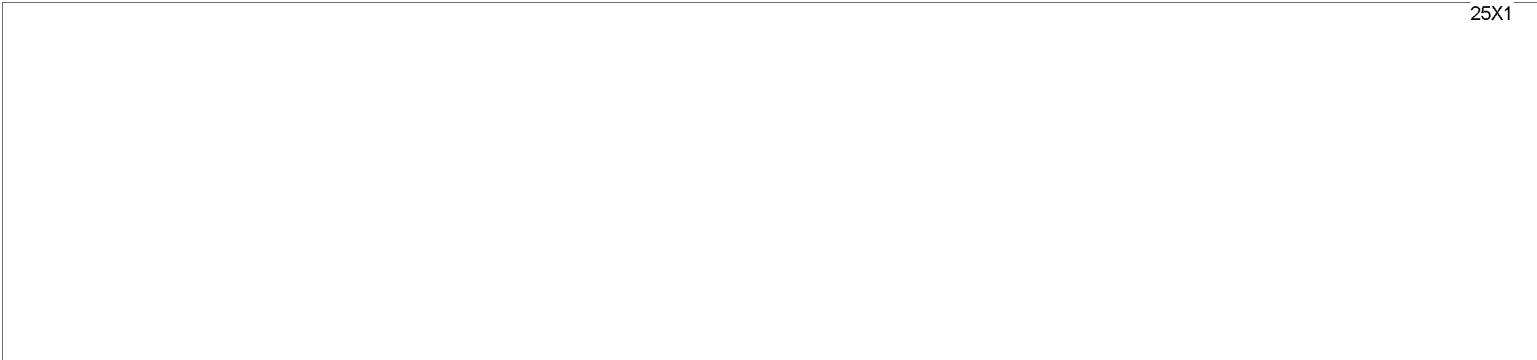
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TOP SECRET CHESS RUFF



25X1



25X1

DIA NBRG NDA06-5065-77 25 MAY 77 SEC CLASS: 05G MSN: 2P ACCN: S080337

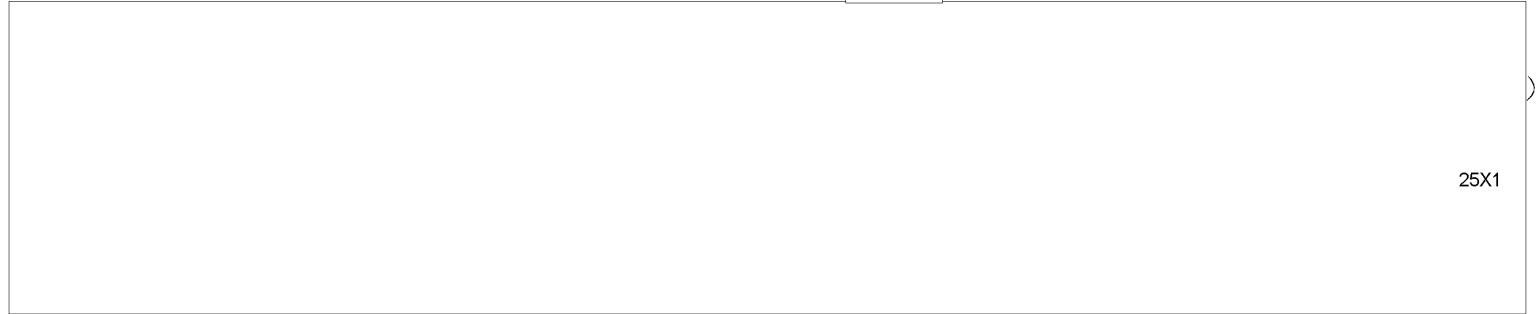
VLADIVOSTOK NAVAL BASE + SHIPYARD 202	UR 430628N 1315510E
WAC NO : 0291	BE/OBJ NO: <input type="text"/> NPIC NO : 48-C
IDHS CODE: <input type="text"/>	EPF CAT : 75E COMIREX NO: <input type="text"/>
VLADIVOSTOK NAVAL BASE + SHIPYARD 202	UR 430628N 1315510E
WAC NO : 0291	BE/OBJ NO: <input type="text"/> NPIC NO : - 48-C
IDHS CODE: <input type="text"/>	EPF CAT : 75B COMIREX NO: <input type="text"/>

25X1

25X1

25X1

25X1



25X1

1732
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	IIM	5B3-52956-77	27 MAY 77	[REDACTED]	SEC CLASS: 14	MSN: [REDACTED]	2P	ACCN: S080340	25X1
		MOSKVA/LENINO GCC RELOCATION	SITE BUNKER	UR	555102N	0370130E			
		WAC NO : 0167	BE/OBJ NO: [REDACTED]	NPIC NO : - 121-05					25X1
		IDHS CODE: [REDACTED]	EPF CAT : 10A	COMIREX NO: [REDACTED]					25X1
DIA	IIM	5B3-52988-77	27 MAY 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: S080341	25X1
		DYATLOVO AIRFIELD RUNWAY	DIMENSIONS	UR	533105N	0251932E			25X1
		WAC NO : 0168	BE/OBJ NO: [REDACTED]	NPIC NO : - 152-A					25X1
		IDHS CODE: [REDACTED]	EPF CAT : 05A	COMIREX NO:					25X1
DIA	IIM	5B3-52997-77	27 MAY 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	3P	ACCN: S080342	25X1
		RYBINSK AIRFIELD NE		UR	580613N	0385537E			25X1
		WAC NO : 0154	BE/OBJ NO: [REDACTED]	NPIC NO : - 52-B					25X1
		IDHS CODE: [REDACTED]	EPF CAT : 05A	COMIREX NO:					25X1
DIA	IIM	5B3-52998-77	27 MAY 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P	ACCN: S080343	25X1
		VYBORG AIRFIELD RUNWAY	INACTIVE PROB	UR	604430N	0283730E			25X1
		WAC NO : 0103	BE/OBJ NO: [REDACTED]	NPIC NO : - 39-B1					25X1
		IDHS CODE: [REDACTED]	EPF CAT : 05A	COMIREX NO:					25X1
DIA	IIM	5B2-52622-77	MAY 77	[REDACTED]	SEC CLASS: 14	MSN: [REDACTED]	4P	ACCN: S080344	25X1
		VUKOVAR PORT FACILITIES	DANUBE RIVER	YO	452147N	0185919E			25X1
		WAC NO : 0252	BE/OBJ NO: [REDACTED]	NPIC NO :					25X1
		IDHS CODE: [REDACTED]	EPF CAT : 75I	COMIREX NO:					25X1
DIA	IIM	5B2-52623-77	31 MAY 77	[REDACTED]	SEC CLASS: 14	MSN: [REDACTED]	4P	ACCN: S080345	25X1
		TURNU SEVERIN PORT FACILITIES		RO	443720N	0223932E			25X1
		WAC NO : 0251	BE/OBJ NO: [REDACTED]	NPIC NO :					25X1
		IDHS CODE: [REDACTED]	EPF CAT : 75I	COMIREX NO:					25X1

25X1

25X1

1733
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Redacted]

25X1

DIA	IIM	5B2-52624-77	MAY 77	[Redacted]	SEC CLASS: 14	MSN: [Redacted]	4P	ACCN: S080347	25X1
		PRAHOVO PORT FACILITIES DANUBE RIVER			YO	441733N 022364E			
		WAC NO : 0251		BE/OBJ NO: [Redacted]	NPIC NO :				25X1
		IDHS CODE: [Redacted]		EPF CAT : 75I	COMIREX NO:				25X1
DIA	IIM	5B2-52625-77	MAY 77	[Redacted]	SEC CLASS: 14	MSN: [Redacted]	6P	ACCN: S080348	25X1
		ORSOVA PORT FACILITIES COROANA			RO	444239N 022254E			
		WAC NO : 0251		BE/OBJ NO: [Redacted]	NPIC NO :				25X1
		IDHS CODE: [Redacted]		EPF CAT : 75I	COMIREX NO:				25X1
DIA	IIM	5B2-52646-77	MAY 77	[Redacted]	SEC CLASS: 14B	MSN: [Redacted]	8P	ACCN: S080349	25X1
		BELGOROD DNESTROVSKIY PORT FACILITY			UR	461100N 0302220E			
		WAC NO : 0250		BE/OBJ NO: [Redacted]	NPIC NO :				25X1
		IDHS CODE: [Redacted]		EPF CAT : 75I	COMIREX NO:				25X1
DIA	IIM	5B2-52647-77	MAY 77	[Redacted]	SEC CLASS: 14	MSN: [Redacted]	11P	ACCN: S080350	25X1
		KILIYA PORT FACILITIES			UR	452555N 0291620E			
		WAC NO : 0250		BE/OBJ NO: [Redacted]	NPIC NO :				25X1
		IDHS CODE: [Redacted]		EPF CAT : 75I	COMIREX NO:				25X1
DIA	IIM	5B2-52649-77	MAY 77	[Redacted]	SEC CLASS: 14B	MSN: [Redacted]	4P	ACCN: S080351	25X1
		ZEYA PORT FACILITIES BULK MATERIALS ZEYA RVR			UR	534410N 1271720E			
		WAC NO : 0198		BE/OBJ NO: [Redacted]	NPIC NO :				25X1
		IDHS CODE: [Redacted]		EPF CAT : 75I	COMIREX NO:				25X1
AF	PAR	501-77	09 FEB 77	[Redacted]	SEC CLASS: 13	MSN: [Redacted]	32P	ACCN: S080352	25X1
		MISSILES, SSM GROUND SUPPORT EQUIPMENT			CH				
		WAC NO :		BE/OBJ NO:	NPIC NO :				
		IDHS CODE:		EPF CAT : 40I	COMIREX NO:				
AF	PAR	503-77	22 FEB 77	[Redacted]	SEC CLASS: 13	MSN: [Redacted]	21P	ACCN: S080353	25X1

1734
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

KAPUSTIN YAR MTC SS-X-20 CANISTERS/GSE UR 484107N 0455853E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10 25X1
IDHS CODE: [] EPF CAT : 40B COMIREX NO: [] 25X1

AF PAR 512-77 28 FEB 77 [] SEC CLASS: 13 MSN: [] 11P ACCN: S080354 25X1

HSIAN AVIATION INSTITUTE CH 341451N 1085425E
WAC NO : 0384 BE/OBJ NO: [] NPIC NO : - 3-D1 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

AF PAR 518-77 03 MAR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S080355 25X1

KOLOMNA RADIO COMMO XMTR CPLX GENERAL STAFF UR 545930N 0385650E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 134-B1 25X1
IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

AF PAR 519-77 10 MAR 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S080356 25X1

KAPUSTIN YAR MTC COMPLEX 0 CRUISE TEST SITES UR 482813N 0461904E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-A3 25X1
IDHS CODE: [] EPF CAT : 40K COMIREX NO: [] 25X1

CASPIAN SEA ASM IMPACT AREA UR 453000N 0514200E
WAC NO : 0247 BE/OBJ NO: [] NPIC NO : - 3-A 25X1
IDHS CODE: [] EPF CAT : 40J COMIREX NO: [] 25X1

AF PAR 520-77 28 FEB 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080357 25X1

KAPUSTIN YAR MTC ELECTRONICS RLTD FAC PAD A1 UR 485008N 0453911E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 10-G 25X1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

AF PAR 521-77 28 FEB 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: S080358 25X1

MOSKVA SOLID MOTOR PRODUCTION PLANT LYUBERTSY UR 553648N 0375240E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 46-E1 25X1
IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

THIS REPORT DESCRIBES TEST CELL IV AT MOSKVA SOLID MOTOR PRODUCTION PLANT LYUBERTSY. CONSTRUCTION OF
SUPPORT BUILDINGS AND A PROBABLE PROPELLANT PRODUCTION LINE ARE DESCRIBED.*

AF PAR 522-77 25 FEB 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080359 25X1.1

MISSILES, ICBM TYPE 36 SILOS U/C UR

1735
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

AF PAR 523-77 08 MAR 77 SEC CLASS: 13 MSN: 6P

ACCN: S08036025X1

ELECTRONICS, HEN HOUSE ABM RADAR TOWER CONST UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

PHOTOGRAPHY OF ALL HEN HOUSE FACILITIES SHOWS THAT TOWERS OR SLAB-LIKE STRUCTURES ARE BEING BUILT IN FRONT OF THE HEN HOUSE ANTENNAS. EVIDENCE OF CABLING CONNECTING EACH OF THE TOWERS OR SLAB-LIKE STRUCTURES TO ITS ASSOCIATED HEN HOUSE ANTENNA WAS NOTED.*

AF PAR 524-77 25 FEB 77 SEC CLASS: 13 MSN: 3P

ACCN: S08036125X1

TAGANROG SEAPLANE STATION AIRFRAME U/I UR 471135N 0385230E
WAC NO : 0249 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05B COMIREX NO:

25X1

25X1

A REVIEW OF PHOTOGRAPHY REVEALED THAT THE U/I AIRFRAME PRESENT ADJACENT TO THE WEST SECURITY FENCE AT TAGANROG SEAPLANE STATION IS NOT THE KASP-B. DIMENSIONS AND DETAILED DESCRIPTION ARE GIVEN.*

25X1

25X1

AF PAR 526-77 09 MAR 77 SEC CLASS: 13 MSN: 3P

ACCN: S08036225X1

MISSILES, ICBM TYPE 3F/6/H SILO LOOPS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS REPORT DESCRIBES TWO CONFIGURATIONS OF STRUCTURAL LOOPS WHICH ARE FUNCTIONALLY ASSOCIATED WITH THE NEW GENERATION OF SOVIET ICBM SYSTEMS SILOS.*

AF PAR 527-77 03 MAR 77 SEC CLASS: 13 MSN: 2P

ACCN: S08036325X1

NOVOSIBIRSK ICBM SILO COMPONENTS PLANT SEARCH UR 5506 N 08259 E
WAC NO : 0162 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

AF PAR 529-77 04 MAR 77 SEC CLASS: 13 MSN: 2P

ACCN: S08036425X1

1736
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

SUNGCHIANG GUIDED MSL PROD PLT CSS-X-4 TRANS CH 305800N 1211242E
 WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 48-B4
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
 MINHANG BOILER PLANT MSL RLTD ACT/EQUIP SRCH CH 310028N 1212320E
 WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 48-C2
 IDHS CODE: [] EPF CAT : 40 COMIREX NO: []
 MINHANG BOILER PLANT MSL RLTD ACT/EQUIP SRCH CH 310028N 1212320E
 WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 48-C2
 IDHS CODE: [] EPF CAT : 30D COMIREX NO: []
 SHANGHAI STEAM TURBINE PLT MSL RLTD ACT SRCH CH 310015N 1212442E
 WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 28-V4
 IDHS CODE: [] EPF CAT : 40 COMIREX NO: []
 SHANGHAI STEAM TURBINE PLT MSL RLTD ACT SRCH CH 310015N 1212442E
 WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 28-V4
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

AF PAR 530-77 28 MAR 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: S080365 25X1

NANCHING AERONAUTICAL INST WIND TUNNEL U/C CH 320210N 1184859E
 WAC NO : 0386 BE/OBJ NO: [] NPIC NO : - 16-A2
 IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1

25X1

AF PAR 531-77 04 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080366 25X1

HAINANTAO MISSILE + ROCKET BASE SEARCH CH 185810N 1092400E
 WAC NO : 0618 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

25X1

AF PAR 532-77 08 MAR 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080367 25X1

KAMCHATKA MISSILE IMPACT AREA ZETA ANTENNAS UR 572300N 1614100E
 WAC NO : 0132 BE/OBJ NO: [] NPIC NO : - 57
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

THIS REPORT DESCRIBES A FIVE-ARM ARRAY, A PLUS-SHAPED GROUND SCAR, AND TWO MASTS LOCATED AT THE KAMCHATKA MISSILE IMPACT AREA ZETA.*

AF PAR 533-77 04 MAR 77 [] SEC CLASS: 13 MSN: [] 11P ACCN: S080368 25X1

MISSILES, SS-16/SS-X-20 GSE SEARCH UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
 MISSILES, SS-16/SS-X-20 GSE SEARCH UR

1737

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40B COMIREX NO:
 ELECTRONICS, COMSAT/COMMO MBL EQUIP SRF CPLXS UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25C COMIREX NO:

PHOTOGRAPHY COVERING ALL IR/MRBM FACILITIES + ICBM RRTP'S/SUPPORT FACILITIES, NO MOBILE MISSILE HANDLING EQUIPMENT NOR POSSIBLE MOBILE MISSILES (SS-X-16/20) WERE IDENTIFIED. RESULTS ARE GIVEN OF THE SEARCH AT 39 ICBM AND IR/MRBM SRF COMPLEXES FOR COMSAT TERMINALS, MOBILE COMSAT ANTENNAS, AND OTHER MOBILE COMMUNICATIONS EQUIPMENT.*

25X1

AF PAR 534-77 08 MAR 77 SEC CLASS: 13 MSN: 3P ACCN: 5080369 25X1

HUHOHAOTE SOLID PROPELLANT COMPLEX CYL OBJS CH 404414N 1115740E
 WAC NO : 0288 BE/OBJ NO: NPIC NO : - 7-H
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 LANTIEN SOLID PROPELLANT PROD COMPLEX CYL OBJS CH 340319N 1092430E
 WAC NO : 0385 BE/OBJ NO: NPIC NO : - 86
 IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

25X1

25X1

THIS REPORT PRESENTS A DESCRIPTION AND TRACES THE NUMBER AND LOCATION OF CYLINDRICAL OBJECTS OBSERVED AT HU-HO-HAO-TE AND LAN-TIEN WHICH APPEAR IDENTICAL TO THE "VACUUM CHAMBERS" REPORTED IN

25X1

AF PAR 535-77 30 MAR 77 SEC CLASS: 13 MSN: 5P ACCN: 5080370 25X1

ITU SSM TRAINING POSITION CH 363604N 1182842E
 WAC NO : 0381 BE/OBJ NO: NPIC NO : - 195-B
 IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES A CHRONOLOGY OF SIGNIFICANT CHANGES/CONSTRUCTION AT I-TU SSM TRAINING POSITION FROM 1972 THROUGH 1976. IT UPDATES PAR 73-658 AND ASSOCIATED DRAWING 7384521 CONCERNING THE I-TU SERVICE TOWER AND GROUND SUPPORT EQUIPMENT.*

AF PAR 536-77 31 MAR 77 SEC CLASS: 13 MSN: 13P ACCN: 5080371 25X1

HSIAN AIRFRAME PLANT YENLIANG 172 CH 343854N 1091336E
 WAC NO : 0385 BE/OBJ NO: NPIC NO : - 21-A
 IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X25X1

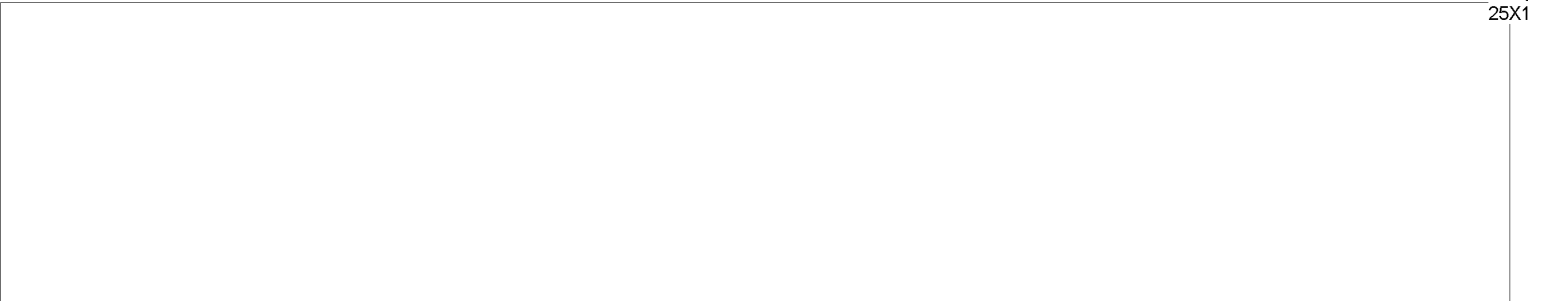
THIS REPORT CHARTS THE GROWTH IN ROOF COVERAGE AND FLOORSPACE OF THE HSI-AN/YEN-LIANG FLIGHT TEST CENTER BETWEEN NOV 1962 AND OCT 1976. A FUNCTIONAL DESCRIPTION OF EACH SIGNIFICANT STRUCTURE IS GIVEN. ANNOTATIONS ARE KEYED TO DRAWING 77E6502.*

1738 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1



25X1

AF PAR 538-77 25 MAR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 14P ACCN: S080373 25X1

KAMCHATKA MISSILE IMPACT AREAS CRATERS UR 5712 N 16133 E
WAC NO : 0132 BE/OBJ NO: NPIC NO :
IDHS CODE: [redacted] EPF CAT : 40 COMIREX NO:

25X1

THIS REPORT LISTS GEOGRAPHIC COORDINATES OF NEW CRATERS OBSERVED SINCE PAR 76-575. CRATER VALIDITY, DIMENSIONS, DESCRIPTIVE CHARACTERISTICS, AND TIME OCCURRENCE ARE TABULATED. TOWERS/MASTS AND BUILDINGS IN THE IMPACT AREAS ARE CITED.*

AF PAR 539-77 14 MAR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 2P ACCN: S080374 25X1

OLENKOVO COMMAND CONTROL RCVR FACIL BKR U/I UR 543250N 0380410E
WAC NO : 0167 BE/OBJ NO: [redacted] NPIC NO : - 196-A
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: [redacted]

25X1

25X1

AF PAR 541-77 06 APR 77 [redacted] SEC CLASS: 13 MSN: [redacted] 3P ACCN: S080375 25X1

YAKUTSK/SKOVORODINO COMMUNICATIONS CABLE SYS UR 6203 N 12944 E
WAC NO : 0124 BE/OBJ NO: NPIC NO :
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: 25X1
SKOVORODINO/YAKUTSK COMMUNICATIONS CABLE SYS UR 5359 N 12356 E
WAC NO : 0198 BE/OBJ NO: NPIC NO :
IDHS CODE: [redacted] EPF CAT : 25D COMIREX NO: 25X1
ALDAN COMSAT STATION ORBITA UR 583140N 1253200E
WAC NO : 0129 BE/OBJ NO: [redacted] NPIC NO : - 1-81 25X1
IDHS CODE: [redacted] EPF CAT : 25C COMIREX NO: [redacted] 25X1
YAKUTSK COMSAT STATION ORBITA UR 615430N 1293257E

25X1

1739
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

WAC NO : 0124	BE/OBJ NO: []	NPIC NO : - 8-E1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
TYNDINSKIY COMSAT STATION PROB		UR 550839N 1244227E
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 26-A
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
SKOVORODINO COMSAT STATION ORBITA		UR 535807N 1235757E
WAC NO : 0198	BE/OBJ NO: []	NPIC NO : - 5-D3
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

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

THIS REPORT PROVIDES AN ANALYSIS OF COMMUNICATIONS FACILITIES (CABLE, MICROWAVE, COMSAT, OR RADIO) WHICH ARE LOCATED ALONG THE RAIL/SUPPORT ROAD FROM SKOVORODINO NORTHWARD THROUGH TYNDINSKIY AND BERKAKIT TO YAKUTSK.*

AF PAR 543-77 31 MAR 77 [] SEC CLASS: 13 MSN: 4P ACCN: S080376 25X1

FENGCHOU EXPLOSIVE FORMING FACILITY	CH 335623N 1064423E
WAC NO : 0384	BE/OBJ NO: [] NPIC NO :
IDHS CODE: []	EPF CAT : 30C COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES A PHOTO ANALYSIS OF THE FENG-CHOU EXPLOSIVE FORMING FACILITY. IT INCLUDES A CONSTRUCTION CHRONOLOGY, BUILDING DIMENSIONS, AND THE RESULTS OF A SEARCH FOR DIES/MOLDS.*

AF PAR 544-77 24 MAR 77 [] SEC CLASS: 13 MSN: 2P ACCN: S080377 25X1

SERPUKHOV RADIO COMMUNICATIONS RCVR STA HARD	UR 545620N 0373423E
WAC NO : 0167	BE/OBJ NO: [] NPIC NO : - 74-E1
IDHS CODE: []	EPF CAT : 25D COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES A PHOTO ANALYSIS OF SERPUKHOV RADIO COMMUNICATIONS RECEIVER STATION/HARD. IT SUPERSEDES PAR 72-523 AND UPDATES DRAWING 72D4503. IT INCLUDES A CONSTRUCTION CHRONOLOGY OF THE TYPE B BURIED ANTENNA.*

AF PAR 546-77 24 MAR 77 [] SEC CLASS: 13 MSN: 2P ACCN: S080378 25X1

PENZA COMMAND CONTROL RADCOM RCVR STA HARD	UR 530954N 0451847E
WAC NO : 0166	BE/OBJ NO: [] NPIC NO : - 17-P
IDHS CODE: []	EPF CAT : 25D COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES AN UPDATED PHOTO ANALYSIS OF PENZA COMMAND + CONTROL RADIO COMMUNICATIONS RECEIVER STATION HARDENED. IT SUPERSEDES PAR 74-512 AND IS KEYED TO DRAWING 74C4501/1.*

AF PAR 547-77 13 APR 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080379 25X1

1740
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CHINHSIEN SSM FIELD POSITION

WAC NO : 0381

BE/OBJ NO:

CH 390522N 1214634E

NPIC NO : - 220

IDHS CODE:

EPF CAT : 40

COMIREX NO:

25X1

25X1

ON PHOTOGRAPHY

THE CHIN-HSIEN SSM FIELD POSITION AND ITS ASSOCIATED SUPPORT AREAS WERE VOID OF ACTIVITY. ACCESS ROADS HAVE BEEN IMPROVED. THIS REPORT UPDATES PAR 73-586.*

25X1

25X1

AF REPT

588-76

17 FEB 77

SEC CLASS: 13

MSN:

18P

ACCN: S080381

25X1

BIYSK SOLID MOTOR PRODUCTION PLANT 2

WAC NO : 0161

BE/OBJ NO:

UR 522850N 0850300E

NPIC NO : - 6-A2

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

25X1

25X1

25X1

THIS REPORT DESCRIBES THE CONSTRUCTION ACTIVITY, THE NUMBER AND LOCATION OF GENERAL RAILCARS, AND A DETAILED DESCRIPTION OF THE PROBABLE ROCKET MOTOR ASSOCIATED RAILCARS AND OBJECTS LOCATED WITHIN BIYSK SOLID MOTOR PRODUCTION PLANT 2 AND ITS ASSOCIATED AREAS. A DETAILED DESCRIPTION OF THE DECEPTIVE DEVICES FOUND WITHIN PLANT 2 IS ALSO PRESENTED.*

AF REPT

646-76

09 FEB 77

SEC CLASS: 13

MSN:

6P

ACCN: S080382

25X1

25X1

SARY SHAGAN MTC COMPLEX 6 MISSILE SYSTEM NEW

WAC NO : 0245

BE/OBJ NO:

UR 455149N 0732352E

NPIC NO : - 78-A

IDHS CODE:

EPF CAT : 40E

COMIREX NO:

25X1

25X1

ELECTRONICS, FLAP LID ENGAGEMENT RADAR

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 25A

COMIREX NO:

ELECTRONICS, CLAM SHELL ACQUISITION RADAR

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 25A

COMIREX NO:

MISSILES, TRANSPORTER-ERECTOR-LAUNCHER NEW

WAC NO :

BE/OBJ NO:

UR

NPIC NO :

IDHS CODE:

EPF CAT : 401

COMIREX NO:

MISSILES, CANISTER COMPARISON

UR

25X1

1741
TOP SECRET CHESS RUFF



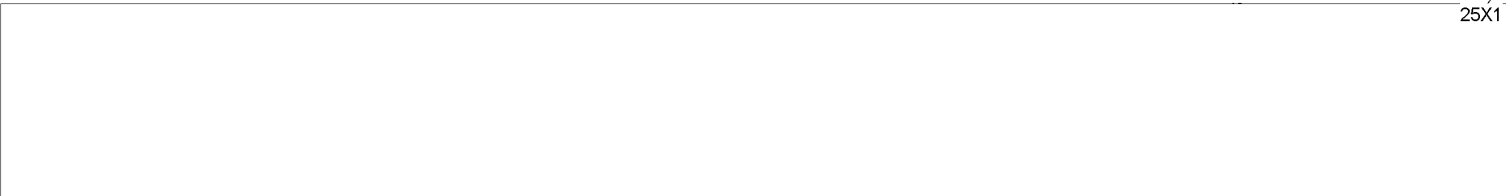
TOP SECRET CHESS RUFF



25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40I COMIREX NO:

THIS REPORT PROVIDES PHOTOGRAPHIC ANALYSIS OF VARIOUS COMPONENTS OF A NEW MISSILE SYSTEM OBSERVED AT SARY SHAGAN MTC, LAUNCH COMPLEX G. A CANISTER COMPARISON AND ANY INDICATIONS OF MISSILE FIRINGS AND CABLING/TRENCHING/CONDUIT CONNECTIONS BETWEEN LAUNCHERS AND LAUNCH CONTROL/ELECTRONICS VANS IS INCLUDED.*



25X1

AF ENDR A3003-77 09 FEB 77 SEC CLASS: 07 MSN: 1P ACCN: S080384

AIRCRAFT, FLAGON F SU-15 GUN POD UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

AF ENDR A3004-77 22 FEB 77 SEC CLASS: 07 MSN: 1P ACCN: S080385

MISSILES, AS-7 LAUNCHER FITTER C MOUNTED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40J COMIREX NO:
AIRCRAFT, FITTER C AS-7 LAUNCHER ARMED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

AF ENDR B1506-77 01 MAR 77 SEC CLASS: 13 MSN: 1P ACCN: S080386

MISSILES, VACUUM CHAMBER SOLID PRPLNT ASSOC CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40I COMIREX NO:

AF ENDR B4001-77 07 FEB 77 SEC CLASS: 04 MSN: 1P ACCN: S080387

SPACE, SALYUT-5/SOYUZ-21 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1

1742
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

SPACE, SOYUZ-21/SALYUT-5
WAC NO :
IDHS CODE:

BE/OBJ NO: [] UR
EPF CAT : 40H NPIC NO :
COMIREX NO:

AF ENDR B4521-1-73 14 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080388

25X1

25X1

ITU SSM TRAINING POSITON SERVICE TOWER
WAC NO : 0381
IDHS CODE: []

BE/OBJ NO: [] CH 363604N 1182842E
EPF CAT : 40 NPIC NO : - 195-B
COMIREX NO: []

AF ENDR B6501-77 04 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080389

25X1
25X1

25X1

CASPIAN SEA ASM IMPACT AREA
WAC NO : 0247
IDHS CODE: []

BE/OBJ NO: [] UR 453000N 0514200E
EPF CAT : 40J NPIC NO : - 3-A
COMIREX NO: []

AF ENDR C1505-77 17 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080390

25X1
25X1

25X1

MISSILES, ICBM TYPE 3X SILO STRUCTURAL LOOPS
WAC NO :
IDHS CODE:

BE/OBJ NO: [] UR
EPF CAT : 40A NPIC NO :
COMIREX NO:

AF ENDR C4501-77 09 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080391

25X1

MOSKVA SOLID MOTOR PRODUCTION PLT TEST CELL 4
WAC NO : 0167
IDHS CODE: []

BE/OBJ NO: [] UR 553648N 0375240E
EPF CAT : 40E NPIC NO : - 46-E1
COMIREX NO: []

AF ENDR C4501-1-74 17 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080392

25X1
25X1

25X1

PENZA COMMAND CONTROL RADCOM RCVR STA HARD
WAC NO : 0166
IDHS CODE: []

BE/OBJ NO: [] UR 530954N 0451847E
EPF CAT : 25D NPIC NO : - 17-P
COMIREX NO: []

AF ENDR C4502-77 09 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080393

25X1
25X1

25X1

MOSKVA SOLID MOTOR PROD PLT PRPLNT PROD LINE
WAC NO : 0167
IDHS CODE: []

BE/OBJ NO: [] UR 553648N 0375240E
EPF CAT : 40E NPIC NO : - 46-E1
COMIREX NO: []

AF ENDR C4503-77 01 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080394

25X1
25X1

25X1

NANCHING AERONAUTICAL INSTITUTE WIND TUNNEL CH 320210N 1184859E

1743
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

WAC NO : 0386 BE/OBJ NO: [redacted] NPIC NO : - 16-A2
IDHS CODE: [redacted] EPF CAT : 05G COMIREX NO: [redacted]

25X1
25X1
25X1



AF ENDR C6506-77 15 MAR 77 [redacted] SEC CLASS: 13 MSN: 1P ACCN: S08039625X1

FENGCHOU EXPLOSIVE FORMING FACILITY CH 335623N 1064423E
WAC NO : 0384 BE/OBJ NO: [redacted] NPIC NO :
IDHS CODE: [redacted] EPF CAT : 30C COMIREX NO:

25X1
25X1

AF ENDR D1005-77 18 FEB 77 SEC CLASS: 05 MSN: 1P ACCN: S080397

SPACE, SPUTNIK-2/SL-1/2 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, VOSTOK/SL-3 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, SOYUZ/SL-4 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, VENUS PROBE/SL-6 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, ENVIRONMENTAL RESEARCH SAT/SL-7 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, INTERCOSMOS/SL-8 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, FOBS/SL-11 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, LUNA-17/SL-12 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
SPACE, SALYUT/SL-13 UR
WAC NO : BE/OBJ NO: NPIC NO :

1744
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE:
SPACE LAUNCH SYSTEMS
WAC NO :
IDHS CODE:

EPF CAT : 40H
BE/OBJ NO:
EPF CAT : 40H

COMIREX NO:
UR
NPIC NO :
COMIREX NO:

AF ENDR D1502-77 13 JAN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080398 25X1

ELECTRONICS, FLAP LID ENGAGEMENT RADAR
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25A

UR
NPIC NO :
COMIREX NO:

AF ENDR D4503-1-72 14 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080399 25X1

SERPUKHOV RADIO COMMUNICATIONS RCVR STA HARD
WAC NO : 0167
IDHS CODE: []

BE/OBJ NO:
EPF CAT : 25D

UR 545620N 0373423E
NPIC NO : - 74-E1
COMIREX NO: []

AF ENDR D4504-77 07 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080400 25X1

OLENKOVO COMMAND CONTROL RCVR FACIL BKR W/T
WAC NO : 0167
IDHS CODE: []

BE/OBJ NO:
EPF CAT : 25D

UR 543250N 0380410E
NPIC NO : - 196-A
COMIREX NO: []

AF ENDR D4507-2-69 02 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080401 25X1

NANCHING AERONAUTICAL INSTITUTE
WAC NO : 0386
IDHS CODE: []

BE/OBJ NO:
EPF CAT : 05G

CH 320210N 1184859E
NPIC NO : - 16-A2
COMIREX NO: []

25X1
25X1

25X1
25X1

25X1
25X1

25X1

25X1
25X1
25X1

AF ENDR D4528-1-72 14 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080403 25X1

ITU SSM TRAINING POSITION
WAC NO : 0381
IDHS CODE: []
KUNMING SSM FIELD POSITION
WAC NO : 0496
IDHS CODE: []

BE/OBJ NO:
EPF CAT : 40

CH 363604N 1182842E
NPIC NO : - 195-B
COMIREX NO: []

BE/OBJ NO:
EPF CAT : 40

CH 245208N 1025347E
NPIC NO : - 4-B1
COMIREX NO: []

25X1
25X1

25X1
25X1

25X1

1745
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

AF ENDR D6505-1-71 07 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08040425X1

BIYSK SOLID MOTOR PROD PLT 1 RKT MTR PROD NEW UR 522905N 0850710E

WAC NO : 0161 BE/OBJ NO: [] NPIC NO : - 6-A

IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1
25X1

AF ENDR D6513-3-73 23 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08040625X1

AIRCRAFT, WIND TUNNELS CH

WAC NO : [] BE/OBJ NO: [] NPIC NO : []

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

25X1

AF ENDR D6539-4-69 23 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08040625X1

HSIAN AVIATION INSTITUTE CH 341451N 1085425E

WAC NO : 0384 BE/OBJ NO: [] NPIC NO : - 3-D1

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

25X1
25X1

AF ENDR D6553-1-73 11 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08040625X1

MOSKVA SOLID MOTOR PRODUCTION PLANT LYUBERTSY UR 553648N 0375240E

WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 46-E1

IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1

AF ENDR E1004-77 07 FEB 77 [] SEC CLASS: 07 MSN: [] 1P ACCN: S080410

AIRCRAFT, FILTER D UR

1746
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	WAC NO :	BE/OBJ NO:	NPIC NO :			
	IDHS CODE:	EPF CAT : 05D	COMIREX NO:			
AF	ENDR	E4505-2-75 04 MAR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P ACCN: S080411 25X1
	KAMCHATKA MISSILE IMPACT AREAS CRATERS		UR 5712 N 16133 E			
	WAC NO : 0132	BE/OBJ NO:	NPIC NO :			25X1
	IDHS CODE: [REDACTED]	EPF CAT : 40	COMIREX NO:			
AF	ENDR	E4517-3-75 04 MAR 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P ACCN: S080412 25X1
	KAMCHATKA MISSILE IMPACT AREAS CRATERS		UR 5712 N 16133 E			
	WAC NO : 0132	BE/OBJ NO:	NPIC NO :			25X1
	IDHS CODE: [REDACTED]	EPF CAT : 40	COMIREX NO:			
AF	ENDR	E4534-2-75 04 MAR 77	[REDACTED]	SEC CLASS: 13	MSN:	1P ACCN: S080413 25X1
	KAMCHATKA MISSILE IMPACT AREAS CRATERS		UR 5712 N 16133 E			
	WAC NO : 0132	BE/OBJ NO:	NPIC NO :			25X1
	IDHS CODE: [REDACTED]	EPF CAT : 40	COMIREX NO:			
AF	ENDR	E6502-77 18 MAR 77	[REDACTED]	SEC CLASS: 13	MSN:	1P ACCN: S080414 25X1
	HSIAN AIRFRAME PLANT YENLIANG 172		CH 343854N 1091336E			
	WAC NO : 0385	BE/OBJ NO: [REDACTED]	NPIC NO : - 21-A			25X1
	IDHS CODE: [REDACTED]	EPF CAT : 05G	COMIREX NO: [REDACTED]			25X1
AF	ENDR	E6524-2-75 11 FEB 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	1P ACCN: S080415 25X1
	PLESETSK MTC SPACE SITE 27 CONSTRUCTION		UR 625423N 0404715E			
	WAC NO : 0102	BE/OBJ NO: [REDACTED]	NPIC NO : - 27-X			25X1
	IDHS CODE: [REDACTED]	EPF CAT : 40H	COMIREX NO: [REDACTED]			25X1
NPIC	IIR	IIR035-77 03 JUN 77	[REDACTED]	SEC CLASS: 14D	MSN: [REDACTED]	2P ACCN: S080416 25X1
	KOMSOMLSK SHIPYARD AMUR 199 V CLASS SSN BOW		UR 503232N 1370248E			
	WAC NO : 0204	BE/OBJ NO: [REDACTED]	NPIC NO : - 13-E			25X1
	IDHS CODE: [REDACTED]	EPF CAT : 75E	COMIREX NO: [REDACTED]			25X1

A PROBABLE VICTOR NUCLEAR-POWERED SUBMARINE (SSN) BOW SECTION WAS OBSERVED AT KOMSOMLSK SHIPYARD AMUR 199, USSR, [REDACTED] THIS IS THE FIRST EVIDENCE OF PROBABLE VICTOR-CLASS SSN PRODUCTION AT THIS FACILITY.

25X1
25X1

[REDACTED] THE OPENING FOR THE WEAPONS-LOADING

1747
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

HATCH ON THE BOW CENTERLINE IS PRESENTLY 4.0 BY 1.0 METERS. LENGTHENING OF THE WEAPONS-LOADING HATCH AND OPENINGS FOR THE SIX WEAPONS TUBES WILL BE REQUIRED FOR THIS SECTION TO CONFORM TO PRESENT VICTOR SSN CONFIGURATION.

D-I NUCLEAR FLEET BALLISTIC MISSILE SUBMARINES (SSBNS) HAVE BEEN CONSTRUCTED AT KOMSOMOLSK SHIPYARD AMUR 199 SINCE MID-1972 AND ONE 199D AUXILIARY SUBMARINE (SSAG) WAS LAUNCHED IN 1975. THE CONCEALMENT OF PRESSURE HULL ROLLED PLATE SINCE MID-1976 COULD BE RELATED TO THE INTRODUCTION OF PROBABLE VICTOR SSN PRODUCTION AT THIS SHIPYARD.

NPIC IIR IIR036-77 07 JUN 77 [redacted] SEC CLASS: 14B MSN: [redacted] 3P ACCN: S0804125X1

BYKHOV AIRFIELD MAY DAY PREPARATIONS UR 533113N 0301142E
WAC NO : 0167 BE/OBJ NO: [redacted] NPIC NO : [redacted]
IDHS CODE: [redacted] EPF CAT : 05A COMIREX NO: [redacted]

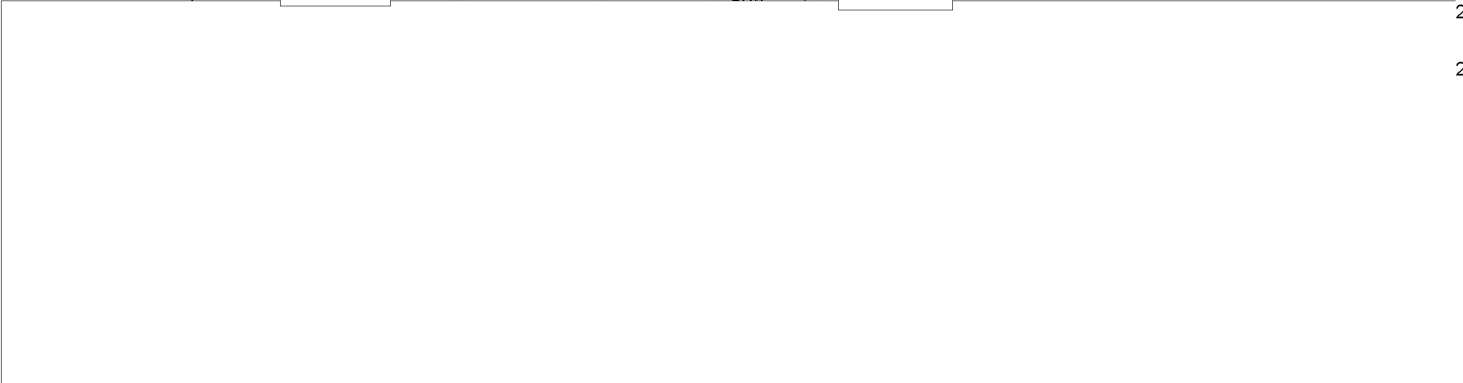
25X1
25X1
25X1

ON PHOTOGRAPHY [redacted] A REVIEW OF PROBABLE NAVAL PERSONNEL WAS OBSERVED IN PARADE FORMATIONS ON THE RUNWAY, TAXI-WAY, CONNECTING LINK, AND LOOP DISPERSAL AREA AT THIS SOVIET NAVAL AIRFIELD. THIS ACTIVITY WAS PROBABLY IN PREPARATION FOR MAY DAY AND INVOLVED APPROXIMATELY 1,300 PERSONNEL IN 25 MARCHING UNITS.

NPIC IIR IIR037-77 07 JUN 77 [redacted] SEC CLASS: 14D MSN: [redacted] 2P ACCN: S0804125X1

VLADIVOSTOK MISSILE PTL BOAT BASE CR MSL CRT UR 430420N 1315541E
WAC NO : 0291 BE/OBJ NO: [redacted] NPIC NO : 48-C3
IDHS CODE: [redacted] EPF CAT : 75B COMIREX NO: [redacted]

25X1
25X1
25X1



25X1

1748
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

[Redacted]

25X1

NPIC IIR IIR039-77 08 JUN 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 2P ACCN: S080420 25X1

LENINGRAD SHIPYARD BALTIYSK ORDZHONIKIDZE 189 UR 595518N 0301537E
WAC NO : 0153 BE/OBJ NO: [Redacted] NPIC NO : - 36-E
IDHS CODE: [Redacted] EPF CAT : 75E COMIREX NO: [Redacted]

25X1
25X1

AN UNIDENTIFIED SUBASSEMBLY WAS SEEN AT LENINGRAD SHIPYARD BALTIC ORDZHONIKID 189, USSR, ON PHOTOGRAPHY
[Redacted] THE SUB-ASSEMBLY, WHICH IS ON THE BUILDINGWAY AT REPORTING POSITION 21, [Redacted]
[Redacted] AND IS DIRECTLY ASTERN OF THE LARGE NAVAL-ASSOCIATED VESSEL (189A).

25X1
25X1

[Redacted]

25X1

DIA IIM 5B3-52991-77 01 JUN 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S080422 25X1

DOBRANY AIRFIELD POL STORAGE CAPACITY CZ 494028N 0131620E
WAC NO : 0231 BE/OBJ NO: [Redacted] NPIC NO : - 45
IDHS CODE: [Redacted] EPF CAT : 05I COMIREX NO: [Redacted]

25X1
25X1

DIA IIM 5B3-52992-77 01 JUN 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S080423 25X1

PRAHA/KBELY AIRFIELD POL STORAGE CZ 500720N 0143241E
WAC NO : 0231 BE/OBJ NO: [Redacted] NPIC NO : - 140-A
IDHS CODE: [Redacted] EPF CAT : 05I COMIREX NO: [Redacted]

25X1
25X1

DIA IIM 5B1-52877-77 02 JUN 77 [Redacted] SEC CLASS: 14D MSN: [Redacted] 30P ACCN: S080424 25X1

ULAN UDE ARMY BARRACKS AL1 + HQ MRD UR 515350N 1073150E
WAC NO : 0201 BE/OBJ NO: [Redacted] NPIC NO : - 18-P
IDHS CODE: [Redacted] EPF CAT : 35A COMIREX NO: [Redacted]

25X1
25X1

1749
TOP SECRET CHESS RUFF

[Redacted]

25X1

Page Denied

TOP SECRET CHESS RUFF

25X1
25X1

25X1

DIA	IIM	5B3-57004-77	JUN 77	[]	SEC CLASS: 13	MSN: []	3P	ACCN: S080433	25X1
		VARFOLOMEYEVKA AIRFIELD SW				UR 441642N 1332443E			
		WAC NO : 0282		BE/OBJ NO: []		NPIC NO : - 57-B			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B1-52994-77	25 MAY 77	[]	SEC CLASS: 14B	MSN: []	6P	ACCN: S080434	25X1
		SVERDLOVSK ARMY BARRACKS AL7 + HQ MRD				UR 564629N 0603454E			
		WAC NO : 0156		BE/OBJ NO: []		NPIC NO : - 26-7			25X1
		IDHS CODE: []		EPF CAT : 35A		COMIREX NO: []			25X1
DIA	IIM	5B3-57003-77	03 JUN 77	[]	SEC CLASS: 13	MSN: []	1P	ACCN: S080435	25X1
		VARFOLOMEYEVKA AIRFIELD SOUTH				UR 441554N 1332508E			
		WAC NO : 0282		BE/OBJ NO: []		NPIC NO : - 57			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-57017-77	02 JUN 77	[]	SEC CLASS: 13	MSN: []	3P	ACCN: S080436	25X1
		GASTELLO AIRFIELD				UR 490635N 1425746E			
		WAC NO : 0205		BE/OBJ NO: []		NPIC NO : - 18			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1

25X1

25X1

1751
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-52993-77 MAY 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S08043825X1

ZATEC AIRFIELD POL STORAGE CAPACITY CZ 502219N 0133523E

WAC NO : 0231 BE/OBJ NO: [] NPIC NO : - 196-A 25X1

IDHS CODE: [] EPF CAT : 05I COMIREX NO: [] 25X1

[] 25X1

NPIC MEMO [] 08 JUN 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: S08044125X1

KOTLAS RADIO RELAY + TV STATION UR 611410N 0463730E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 3-E1 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

KOTLAS RADIO RELAY + TV STATION UR 611410N 0463730E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 3-F1 25X1

IDHS CODE: [] EPF CAT : 25B COMIREX NO: [] 25X1

KRASAVINO RADIO RELAY STATION UR 605558N 0462616E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 54 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

GALUZINO RADIO RELAY STATION WSW UR 604341N 0460326E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 59 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

KOPYLOVO RADIO RELAY STATION UR 603350N 0450240E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 60 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

NYUKSENITSA RADIO RELAY STATION PROB UR 602235N 0441625E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 53 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

VELIKIY USTYUG RADIO RELAY + TV BROADCAST STA UR 603610N 0461140E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 33-B 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

VELIKIY USTYUG RADIO RELAY + TV BROADCAST STA UR 603610N 0461140E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 33-B 25X1

IDHS CODE: [] EPF CAT : 25B COMIREX NO: [] 25X1

GORODISHNA POGOST RADIO RELAY STATION UR 601355N 0442035E

WAC NO : 0101 BE/OBJ NO: [] NPIC NO : - 58 25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

LEVASH RADIO RELAY STATION UR 600700N 0434300E

1752

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0102	BE/OBJ NO: []	NPIC NO : - 85	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TOTMA RADIO RELAY + TV BROADCAST CENTER NW	UR 600423N 0423747E		
WAC NO : 0102	BE/OBJ NO: []	NPIC NO : - 52	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TOTMA RADIO RELAY + TV BROADCAST CENTER NW	UR 600423N 0423747E		
WAC NO : 0102	BE/OBJ NO: []	NPIC NO : - 52	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1

THIS MEMO REVIEWS CURRENT KEYHOLE PHOTOGRAPHY TO DETERMINE THE ANTENNA TYPES, AZIMUTHS AND STATUS OF THE RADIO-RELAY STATIONS BETWEEN KOTLAS AND TOTMA, USSR.*

NPIC IIR IIR041-77 10 JUN 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: 5080442 25X1

AKHTUBINSK/VLADIMIROVKA AIRFIELD FENCER MODIF	UR 481851N 0461630E	
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 18-C
IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []
AIRCRAFT, FENCER MODIFIED	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 05D	COMIREX NO:

25X1
25X1
25X1

A MODIFIED FENCER AIRCRAFT WAS OBSERVED AT AKHTUBINSK FLIGHT TEST CENTER FOR THE FIRST TIME ON IMAGERY

25X1
25X1

1753
TOP SECRET CHESS RUFF

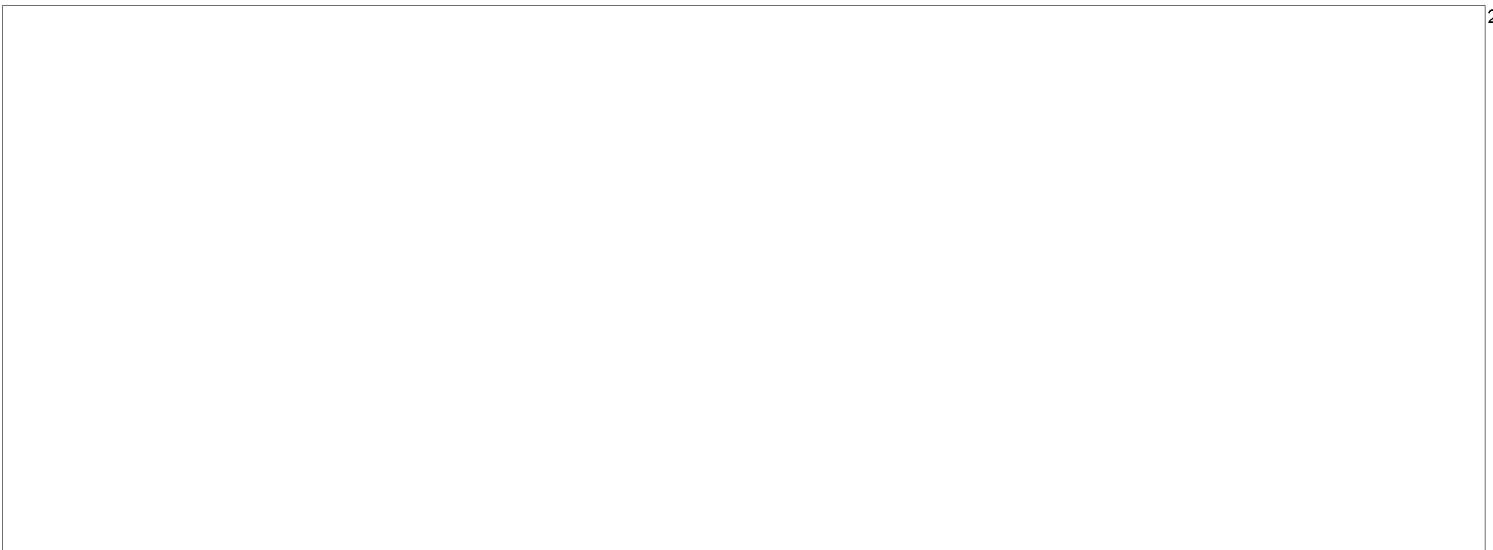
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TOP SECRET CHESS RUFF

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25X1

DIA	NBRG	NDA06-5066-77	10 JUN 77	SEC CLASS: 05I	MSN:	1P	ACCN: S080463
		HAI PHONG NAVAL/SHIPYARD FACILS APPROACHES		VM	2051 N 10640 E		
		WAC NO : 0616	BE/OBJ NO: []	NPIC NO :			25X1
		IDHS CODE: []	EPF CAT : 75	COMIREX NO:			25X1
DIA	NBRG	NDA06-5067-77	10 JUN 77	SEC CLASS: 05I	MSN:	1P	ACCN: S080464
		HAI PHONG PORT FACILITIES EAST		VM	205157N 1064153E		
		WAC NO : 0616	BE/OBJ NO: []	NPIC NO :	109-D		25X1
		IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []			25X1.1
DIA	NBRG	NDA06-5068-77	10 JUN 77	SEC CLASS: 05I	MSN:	1P	ACCN: S080465

1757
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

HAI PHONG NAVAL BASE
WAC NO : 0616
IDHS CODE: []

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

VM 205147N 1064046E
NPIC NO : - 109-E
COMIREX NO: []

DIA IIM 5B3-57049-77 09 JUN 77 []

SEC CLASS: 13 MSN: []

2P

ACCN: S080466

25X1
25X1
25X1

TIVAT AIRFIELD SUPPORT FACILITY POSS U/G U/C
WAC NO : 0321
IDHS CODE: []

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

YO 422429N 0184320E
NPIC NO : - 5
COMIREX NO: []

25X1
25X1
25X1

NPIC IIR IIR042-77 14 JUN 77 []

SEC CLASS: 14B MSN: []

3P

ACCN: S080466

AIRCRAFT: BACKFIRE B RADAR/ELCT CHECKOUT
WAC NO : []
IDHS CODE: []
AKHTUBINSK/VLADIMIROVKA AIRFIELD BACKFIRE B
WAC NO : 0235
IDHS CODE: []

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

UR
NPIC NO : []
COMIREX NO: []
UR 481851N 0461630E
NPIC NO : - 18-C
COMIREX NO: []

25X1
25X1
25X1
25X1

1758
TOP SECRET CHESS RUFF

25X1

Declassified in Part - Sanitized Copy Approved for Release 2011/11/10 : CIA-RDP78B07179A000200040001-3

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TOP SECRET CHESS RUFF

25X1

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ARMY BIIB BAC24-5001-77 MAY 77 SEC CLASS: 07 MSN: 3P ACCN: S080471

AIRCRAFT: HIND D MI-24
WAC NO :
IDHS CODE:
BE/OBJ NO: []
EPF CAT : USD
UR
NPIC NO :
COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION BRIEF (BIIB) UPDATES THE USAIIC BIIR, RAC-24/5004/77, "HIND D HELICOPTER", MARCH 1977. THIS BRIEF PROVIDES ADDITIONAL INFORMATION CONCERNING THE ARMAMENT, NOSE CONFIGURATION, AND A VENT MODIFICATION OF THE MI-24 HIND D. THE BRIEF IS COMPRISED OF AN INTRODUCTION, A BASIC DESCRIPTION WITH MENSURATION DATA, REFERENCE DATA, AND THREE ANNOTATED PHOTOGRAPHS. THE INFORMATION IS CURRENT AS OF MAY 1977.

CIA BIIR RCS13-0002-77 MAY 77 SEC CLASS: 05C MSN: 8P ACCN: S080472

GORLOVKA CHEMICAL COMBINE SOUTH ORDZHONIKIDZE UR 481804N 0380629E
WAC NO : 0234 BE/OBJ NO: [] NPIC NO : - 9-B
IDHS CODE: [] EPF CAT : 30F COMIREX NO:

25X1
25X1

THE GORLOVKA CHEMICAL COMBINE ATZ PRODUCES PRIMARILY NITROGEN FERTILIZERS AND PLASTICS. ITS MAIN PRODUCTS INCLUDE AMMONIA, NITRIC ACID, SULFURIC ACID, AMMONIUM NITRATE FERTILIZER, STYRENE, AND POLYSTYRENE. AMMONIUM SULFATE FERTILIZER AND POTASSIUM NITRATE ARE ALSO POSSIBLY PRODUCED. THE COMBINE REPORTEDLY BEGAN OPERATION PRIOR TO 1941 AS AN AMMONIUM SULFATE PLANT AND HAS SINCE BEEN EXPANDED SEVERAL TIMES. DURING THE 1971-75 FIVE YEAR PLAN, A SULFURIC ACID PLANT WAS CONSTRUCTED AND THE EXISTING STYRENE AND POLYSTYRENE PLANTS WERE EXPANDED. CONSTRUCTION ALSO BEGAN ON AN IMPORTED COMBINED

1760
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AMMONIA AND UREA PLANT, WHICH IS REPORTEDLY SCHEDULED FOR COMPLETION IN DECEMBER 1977. THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE WHICH SUMMARIZES THE PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

CIA REPT IS10008K-77 MAY 77 SEC CLASS: 13 MSN: 80P ACCN: 5080473 25X1

TRANSPORTATION, RAIL CONST STANDARD GAUGE CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 85B COMIREX NO:

STANDARD GAUGE RAIL CONSTRUCTION IN THE PEOPLES REPUBLIC OF CHINA CONTINUED AT A HIGH LEVEL IN 1976. ABOUT 3,100 KILOMETERS (KM) OF RAIL CONSTRUCTION WAS OBSERVED, COMPARED TO THE 3,300 KM SEEN IN 1975. THE AMOUNT OF RAIL LINE COMPLETED DROPPED SLIGHTLY, FROM ABOUT 1,080 KM IN 1975 TO ABOUT 910 KM IN 1976. THE NUMBER OF ACTIVE CONSTRUCTION PROJECTS, HOWEVER, ROSE SIGNIFICANTLY FROM 201 TO 294. RAIL YARDS, REPAIR FACILITIES, AND NEW RAIL BRIDGES ACCOUNTED FOR MOST OF THE INCREASE. NOT INCLUDED IN THE RAIL CONSTRUCTION FIGURES IS THE 960 KM OF RAIL LINE BEING ELECTRIFIED IN 1976, WHICH WILL MORE THAN TRIPLE THE AMOUNT OF ELECTRIFIED RAIL IN CHINA.

CHINESE RAIL CONSTRUCTION DURING 1976 WAS CLEARLY DIRECTED TOWARD THREE GOALS:

- (1) TO CONTINUE TO INCREASE THE CARRYING CAPACITY OF THE EXISTING RAIL LINES
- (2) TO IMPROVE ACCESS TO RESOURCES AND BRING ISOLATED AREAS INTO THE MAINSTREAM OF THE CHINESE ECONOMY
- (3) TO CONTINUE TO SUPPORT INDUSTRIAL DEVELOPMENT

EFFORTS TO INCREASE THE CARRYING CAPACITY OF EXISTING RAIL LINES INCLUDED THE ELECTRIFICATION PROJECTS UNDERWAY IN SZECHWAN, SHENSI, AND HUPEH PROVINCES AND THE DOUBLE TRACKING OF THE TIEN-CHIN/CHI-NAN RAIL LINE IN HOPEH AND SHANTUNG PROVINCES. BRIDGE, BYPASS, AND REALIGNMENT PROJECTS OBSERVED ALONG EXISTING RAIL LINES IN NORTH AND EAST CHINA MAY BE EVIDENCE OF ADDITIONAL DOUBLE TRACKING. THE CONSTRUCTION OF 67 RAIL YARDS AND REPAIR FACILITIES AND 42 TRANSFER AND STORAGE FACILITIES WILL ALSO IMPROVE THE CARRYING CAPACITY OF THE RAIL SYSTEM.

PROJECTS TO IMPROVE ACCESS TO ISOLATED AREAS WERE PARTICULARLY EVIDENT IN 1976. RAIL LINES WERE BEING CONSTRUCTED TO ISOLATED REGIONS IN TSINGHAI PROVINCE (TOWARD KO-ERH-MU) AND TO THE REMOTE AREA OF WESTERN CHINA FROM TURFAN IN SINKIANG UIGHUR AUTONOMOUS REGION. IN NORTHEAST AND NORTH CHINA, A RAIL LINE UNDER CONSTRUCTION FROM PEI-CHING TO TUNG-LIAO WILL OPEN UP A LARGE, SPARSELY SETTLED AREA FOR ECONOMIC DEVELOPMENT AND WILL PROVIDE A MORE DIRECT RAIL LINK FROM PEI-CHING TO THE NORTHEAST. ALSO, A RAIL LINE UNDER CONSTRUCTION IN SHENSI PROVINCE NORTH FROM HSI-AN WILL PROVIDE RAIL ACCESS TO THE YEN-AN AREA.

SUPPORT TO INDUSTRIAL DEVELOPMENT CONTINUED THROUGHOUT CHINA IN 1976. ACTIVE RAIL PROJECTS WERE SEEN AT 160 INDUSTRIAL OR RELATED FACILITIES, AMONG THE MORE IMPORTANT OF THESE FACILITIES ARE TWO PETROLEUM REFINERIES, THREE IMPORTED NITROGEN FERTILIZER PLANTS, AND SEVERAL THERMAL POWER PLANTS.

25X1

1761
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

25X1



25X1

NPIC SR SR032-77 JUN 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 3P ACCN: S080475

25X1

ELECTRONICS, COMSAT STATION TYPE D NEW UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

A NEW TYPE OF COMMUNICATIONS SATELLITE (COMSAT) STATION HAS BEEN IDENTIFIED AT THREE RADIO COMMUNICATIONS TRANSMITTER STATIONS IN THE USSR [REDACTED] THE FACILITIES ARE YENISEYSK RADIO COMMUNICATIONS AND RADIO-RELAY TRANSMITTER STATION SOUTH [REDACTED] POKROVKA RADIO-RELAY AND HIGH-FREQUENCY TRANSMITTER STATION [REDACTED] AND YELOZOVO NAVY RADIO COMMUNICATIONS TRANSMITTER STATION [REDACTED]

25X1

25X1

25X1

25X1

NPIC BIIR RCA03-0003-77 JUN 77 [REDACTED] SEC CLASS: 25 MSN: [REDACTED] 6P ACCN: S080475

ELECTRONICS, AW RADAR FACILITIES KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

THIS REPORT INCLUDES INFORMATION ON AIR WARNING RADAR FACILITIES IN NORTH KOREA. THE DATA IS DERIVED FROM KEYHOLE PHOTOGRAPHY OBTAINED SINCE JUNE 1975 AND SUPERSEDES NPIC REPORT [REDACTED] HIGH-RESOLUTION COVERAGE OF THESE FACILITIES WAS NOT AVAILABLE BETWEEN LATE NOVEMBER 1976 AND THE INFORMATION CUTOFF DATE OF 1 APRIL 1977.

25X1

A LOCATION MAP, THREE ANNOTATED PHOTOGRAPHS, AND A TABLE ARE INCLUDED IN THIS REPORT.

NPIC BIIR RCA09-0009-77 JUN 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 3P ACCN: S080475

25X1

KUMERTAU AIRFRAME PLANT UR 524700N 0554650E
WAC NO : 0165 BE/OBJ NO: [REDACTED] NPIC NO : - 46
IDHS CODE: [REDACTED] EPF CAT : 05G COMIREX NO: [REDACTED]

25X1

25X1

THIS REPORT UPDATES NPIC REPORT [REDACTED] DATED NOVEMBER 1972, WHICH SUBSTANTIALLY SATISFIES THE BASIC REPORTING REQUIREMENTS FOR THIS TARGET. ACTIVITY OBSERVED SINCE JULY 1972, THE LATEST DATE OF INFORMATION FOR THE REFERENCED REPORT, IS INCLUDED UNDER 'BASIC DESCRIPTION.' THIS REPORT INCLUDES AN ANNOTATED PHOTOGRAPH AND A TABLE OF CONSTRUCTION ACTIVITY SINCE JULY 1972. THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 15 APRIL 1977.

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TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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NPIC SR SR031-77 JUN 77 [] SEC CLASS: 25B MSN: [] 2P ACCN: S080478 25X1

SARY SHAGAN MTC COMPLEX A FAN SONG RDR MODIF [] UR 462444N 0725056F
WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 49-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

[] A MODIFIED FAN SONG RADAR WAS IDENTIFIED IN THE GUIDANCE AREA FOR LAUNCH SITE 1 AT SARY-SHAGAN LAUNCH COMPLEX A. A RECTANGULAR REFLECTOR, WITH AN ANTENNA FEED POSITIONED FORWARD OF THE REFLECTOR, WAS ATTACHED TO THE END OF THE HORIZONTAL TROUGH WHERE THE CONTROL DISH IS NORMALLY ATTACHED. NO DISHES WERE OBSERVED ATTACHED TO THE HORIZONTAL TROUGH. THE REFLECTOR [] WIDE AND APPROXIMATELY [] THE SIZE OF THE REFLECTOR APPEARS TO BE VERY SIMILAR TO THAT OF THE REFLECTOR ON THE VAN-MOUNTED WILD CARD RADAR PARKED NEAR THE MODIFIED FAN SONG.

25X1
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25X1

NAVY B1IR HN623-0003-77 APR 77 [] SEC CLASS: 14B MSN: [] 42P ACCN: S080481 25X1

LENINGRAD SHIPYARD ADMIRALTY 194 UR 595502N 0301618E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-T
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
LENINGRAD SHIPYARD SUDOMEKH 196 UR 595542N 0301649E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-B
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
SHIPS, SUBMARINE COMPONENTS U/I UR

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25X1
25X1
25X1

1763
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, SUBMARINE COMPONENTS U/I		UR
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, A CLASS SSN		UR
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, F CLASS SS		UR
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, V-1/V-2 CLASS SSN		UR
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:

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THIS REPORT PROVIDES THE SECOND IN A SERIES OF IMAGERY-DERIVED STUDIES CONCERNING SUBMARINE COMPONENTS OBSERVED AT BOTH LENINGRAD SHIPYARD ADMIRALTY 194 AND LENINGRAD SHIPYARD SUDOMEKH 196. IT IS A DIRECT CONTINUATION OF THE INITIAL BASIC REPORTS PREVIOUSLY DONE ON EACH YARD SEPARATELY: BASIC IMAGERY INTERPRETATION REPORT (BIIR) SUBMARINE COMPONENTS, LENINGRAD SHIPYARD ADMIRALTY 194; RNG-23/0014/74, [] AUGUST 1974 AND BIIR REPORT SUBMARINE COMPONENTS, LENINGRAD SHIPYARD SUDOMEKH 196; RNG-23/0011/74, [] JUNE 1974. IN THIS REGARD, ADMIRALTY AND SUDOMEKH WERE APPARENTLY MERGED ADMINISTRATIVELY BY LATE 1972 INTO ONE YARD KNOWN AS 'UNITED ADMIRALTY SHIPYARD.' THEREFORE, THIS AND ALL SUBSEQUENT STUDIES WILL COMBINE THE ANALYSIS OF COMPONENTS AT BOTH ADMIRALTY AND SUDOMEKH INTO ONE REPORT. THIS REPORT CONTAINS SUPPLEMENTAL TEXTUAL AND GRAPHIC INFORMATION UPDATING DATA PRESENTED IN THE TWO REPORTS PREVIOUSLY MENTIONED.

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THERE ARE THREE BASIC OBJECTIVES OF THESE STUDIES. FIRST, THEY PROVIDE DETAILED INFORMATION REGARDING THE DIMENSIONAL AND CONFIGURATIONAL ASPECTS OF THE INTERNAL AND EXTERNAL COMPONENTS OF KNOWN CLASSES OF SUBMARINES UNDER CONSTRUCTION. THE SECOND OBJECTIVE IS TO PROVIDE AS MUCH INFORMATION AS POSSIBLE CONCERNING NEW CLASSES OR TYPES OF SUBMARINES THAT HAVE NOT YET BEEN PRODUCED, BUT WHICH ARE CURRENTLY IN WORK AS EVIDENCED BY DISCERNIBLE, UNIQUE HULL SECTIONS OR COMPONENTS. THE THIRD OBJECTIVE, CLOSELY RELATED TO THE FIRST TWO, IS TO EVALUATE ALL AVAILABLE PHOTOGRAPHIC EVIDENCE WHICH RELATES TO HULL NUMBERS, LAUNCH CYCLES, AND BUILDING RATES.

25X1)

[]

THE INTELLIGENCE CUTOFF DATE FOR THIS REPORT IS FEBRUARY 1977.

25X1

1764
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

NPIC PIR PIR012-77 MAY 77 [] SEC CLASS: 14D MSN: [] 5P ACCN: S080484 25X1

ELECTRONICS, RADIO RELAY STATIONS VESNA TYPE KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS REPORT CONTAINS INFORMATION PERTAINING TO VESNA-TYPE RADIO RELAY STATIONS IN NORTH KOREA. IT UPDATES NPIC REPORT [] AUGUST 1976, AND INCLUDES A LOCATION MAP, TWO PHOTOGRAPHS, AND A TABLE. 25X1

NPIC MODL [] MAY 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S080485 25X1

MISSILES, 1-BAY GARAGE SS-X-20 ASSOC UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

ARMY BIIB BAC24-0002-77 MAY 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S080487 25X1

AIRCRAFT, HOOK MI-6 MODIFIED UR
WAC NO : BE/OBJ NO: 610080 NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

THIS BASIC IMAGERY INTERPRETATION BRIEF (BIIB) WAS PREPARED IN ACCORDANCE WITH USAIIC'S BASIC-SUPPORT PRODUCTION RESPONSIBILITY FOR THIRD-PHASE IMAGERY EXPLOITATION UNDER THE NATIONAL TASKING PLAN. IT PROVIDES THE INTELLIGENCE COMMUNITY WITH INFORMATION ON A NEW MAIN ROTOR SYSTEM OBSERVED ON THE MI-6 HOOK. 25X1

1765
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THE BIIB CONSISTS OF ONE PAGE OF TEXT CONTAINING A DESCRIPTION AND MENSURATION OF THE EIGHT-BLADED MAIN ROTOR OF THE MI-6 HOOK MOD. IT ALSO INCLUDES THREE PHOTOGRAPHS AND SOURCE DATA AS WELL AS AN ARTIST'S CONCEPT OF THE HELICOPTER.

NPIC B1IR RCA09-0008-77 MAY 77 [] SEC CLASS: 14D MSN: [] 8P ACCN: S08048 25X1

PETROVKA NAVAL BASE + SHIPYARD		UR	430703N 1322017E	
WAC NO	: 0291	BE/OBJ NO:	[]	NPIC NO : - 67
IDHS CODE:	[]	EPF CAT	: 75B	COMIREX NO: []
PETROVKA NAVAL BASE + SHIPYARD		UR	430703N 1322017E	
WAC NO	: 0291	BE/OBJ NO:	[]	NPIC NO : - 67
IDHS CODE:	[]	EPF CAT	: 75E	COMIREX NO: []

THIS REPORT DESCRIBES SIGNIFICANT ACTIVITY AT PETROVKA NAVAL BASE AND SHIPYARD, USSR, FROM JULY 1974 THROUGH NOVEMBER 1976. IT UPDATES NPIC REPORT [] DATED SEPTEMBER 1974. 25X1

SIGNIFICANT ACTIVITY INCLUDES THE FITTING-OUT OF D-1 NUCLEAR-POWERED BALLISTIC MISSILE SUBMARINES (SSBN) AND THE 199D AUXILIARY SUBMARINE (SSAG) AND THE MAINTENANCE/OVERHAUL OF Y SSBNs, NUCLEAR-POWERED ATTACK SUBMARINES (SSN), AND CRUISE MISSILE SUBMARINES (SSGN). ALSO, A REPAIR HALL, TWO REPAIRWAYS, THE TRANSVERSER EXTENSION, AND A CIVIL DEFENSE SUBSURFACE PERSONNEL SHELTER WERE COMPLETED DURING THIS REPORTING PERIOD.

THIS REPORT CONTAINS THREE ANNOTATED PHOTOGRAPHS, AND AN ORDER-OF-BATTLE TABLE LOCATING THE COMBATANTS AND SELECTED AUXILIARIES BY REPORTING POSITION. INCLUDED AS ONE OF THE ANNOTATED PHOTOGRAPHS IS A FUNCTIONAL AREA ANALYSIS AND AN OR REPORTING POSITION UPDATE.

25X1

1766
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

25X1

CIA REPT IS10012K-77 MAY 77 [] SEC CLASS: 13 MSN: 9P ACCN: S080491 25X1

LONING ICBM SITE 1 SILO U/C	WAC NO : 0385	BE/OBJ NO: []	CH 342136N 1115037E	NPIC NO : - 76-F	25X1
IDHS CODE: []		EPF CAT : 40A	COMIREX NO: []		25X1
LONING ICBM SITE 2 SILO U/C	WAC NO : 0385	BE/OBJ NO: []	CH 341713N 1113738E	NPIC NO : - 76-C2	25X1
IDHS CODE: []		EPF CAT : 40A	COMIREX NO: []		25X1

TWO MISSILE SITES, EACH HAVING ONE SILO, HAVE BEEN UNDER CONSTRUCTION SINCE LATE 1975 NEAR LO-NING IN EAST-CENTRAL CHINA. THIS IS THE FIRST NEW MISSILE SILO CONSTRUCTION TO BE IDENTIFIED IN CHINA SINCE 1970. THE NEW SITES -- DESIGNATED LO-NING LAUNCH SITES 1 AND 2 -- EACH CONSIST OF AN EARTHEN APRON EXCAVATED INTO A STEEP HILLSIDE. THERE IS PHOTOGRAPHIC EVIDENCE THAT SILO CORING IS UNDERWAY AT BOTH SITES BENEATH LARGE SILO COVERS.

WE COMPARED THE LO-NING SITES TO CHINA'S CSS-3 AND CSS-X-4 ICBM SITES IN AN EFFORT TO DETERMINE WHICH MISSILE SYSTEM WILL EVENTUALLY BE DEPLOYED IN THE NEW SILOS. NO FIRM CONCLUSION COULD BE DRAWN FROM THE PHOTOGRAPHIC EVIDENCE, BUT THERE ARE SOME SIMILARITIES TO SITE LOCATIONS AND SILO COVERS AT CSS-3 SILOS. WE BELIEVE THEREFORE THAT THE CSS-3 ICBM SYSTEM IS THE ONE MOST LIKELY TO BE DEPLOYED AT LO-NING.

WE ALSO ATTEMPTED TO DETERMINE IF THERE WAS A RELATIONSHIP BETWEEN THE LO-NING SITES AND CURRENT CONSTRUCTION AT THREE CHINESE MISSILE TEST CENTERS. WE FOUND NO PHOTOGRAPHIC EVIDENCE OF ANY SUCH RELATIONSHIP.

DIA BIIR RDA11-0002-77 JUN 77 [] SEC CLASS: 14B MSN: [] 6P ACCN: S080492 25X1

CRAIOVA AIRFRAME PLANT	WAC NO : 0251	BE/OBJ NO: []	RO 441930N 0235220E	NPIC NO : - 29-A3	25X1
IDHS CODE: []		EPF CAT : 05G	COMIREX NO:		25X1
CRAIOVA AIRFIELD	WAC NO : 0251	BE/OBJ NO: []	RO 441903N 0235319E	NPIC NO : - 29-A	25X1
IDHS CODE: []		EPF CAT : 05A	COMIREX NO: []		25X1

1767
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF



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25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF CRAIOVA AIRFRAME PLANT DURING THE PERIOD APRIL 1972 THROUGH APRIL 1976. THE PLANT, LOCATED IN SOUTH ROMANIA, IS INCOMPLETE AND IS NOT PRODUCING AIRCRAFT. IT HAS 33 BUILDINGS/STRUCTURES WITH A TOTAL OF 38,942 SQUARE METERS OF ROOF COVER. THE PLANT IS CONNECTED BY A CONCRETE TAXIWAY TO CRAIOVA AIRFIELD, WHICH SERVES AS THE FLYAWAY FIELD. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, TWO ANNOTATED PHOTOGRAPHS, AND A TABLE. A REFERENCE DATA LIST FURNISHES IMAGERY, MAP, AND DOCUMENTARY SOURCES.

DIA IIM 5B3-57037-77 14 JUN 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S08049325X1

DEBLIN AMMUNITION DEPOT STAWY 504 PL 513532N 0215426E
WAC NO : 0232 BE/OBJ NO: [redacted] NPIC NO : - 33-B
IDHS CODE: [redacted] EPF CAT : 35F COMIREX NO: [redacted]

25X1
25X1

DIA IIM 5B3-57051-77 14 JUN 77 [redacted] SEC CLASS: 13 MSN: [redacted] 1P ACCN: S08049425X1

JASLO AMMUNITION DEPOT LOADING/PROD ACT SRCH PL 494553N 0212501E
WAC NO : 0232 BE/OBJ NO: [redacted] NPIC NO : - 60-A
IDHS CODE: [redacted] EPF CAT : 35F COMIREX NO: [redacted]
JASLO AMMUNITION DEPOT LOADING/PROD ACT SRCH PL 494553N 0212501E
WAC NO : 0232 BE/OBJ NO: [redacted] NPIC NO : - 60-A
IDHS CODE: [redacted] EPF CAT : 35G COMIREX NO: [redacted]

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25X1
25X1



25X1

1768
TOP SECRET CHESS RUFF



25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Redacted]

25X1

DIA IIM 5B1-57029-77 03 JUN 77 [Redacted] SEC CLASS: 14 MSN: [Redacted] 6P ACCN: S080499

25X1

TOLYATTI CIVIL DEFENSE SHELTERS UR 5332 N 04927 E
WAC NO : 0165 BE/OBJ NO: NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 10A COMIREX NO:

25X1

THIS MEMO LISTS 12 CONFIRMED CIVIL DEFENSE SHELTERS AND THE INDUSTRIAL FACILITIES WITH WHICH THEY ARE ASSOCIATED. ALL SHELTERS EXCEPT ONE ARE OF THE POST 1969 STANDARD TYPE.*

[Redacted]

25X1

1769

TOP SECRET CHESS RUFF

[Redacted]

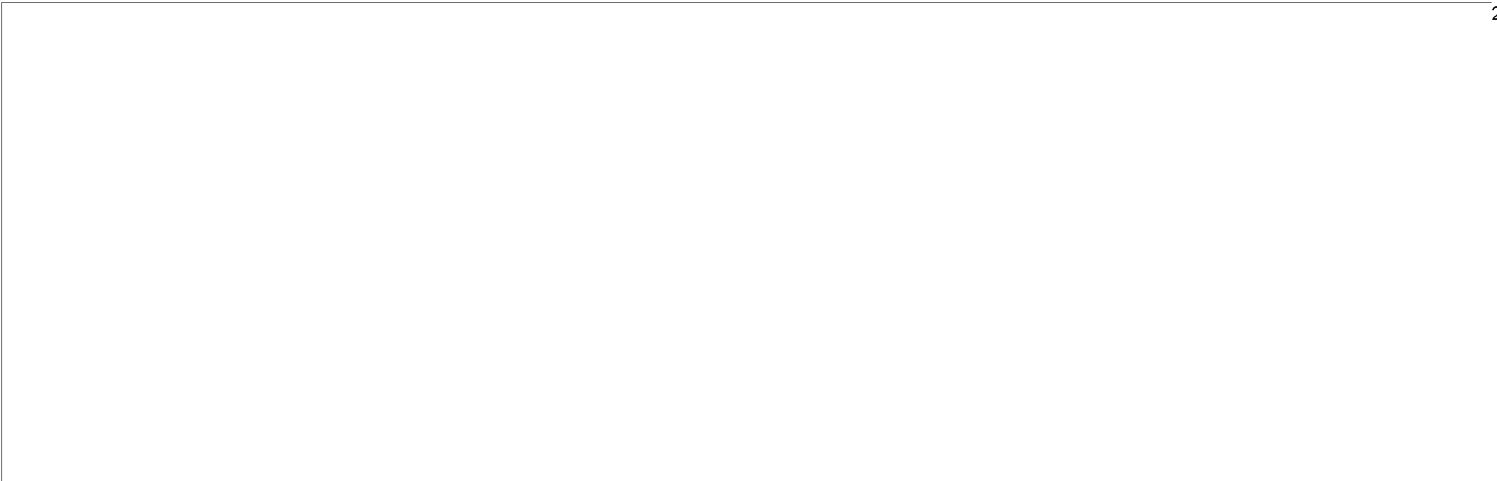
25X1



TOP SECRET CHESS RUFF



25X1



25X1

AF B11R RFB22-5002-77 JAN 77 SEC CLASS: 05 MSN: 12P ACCN: S080504

SPACE, INTERCOSMOS-10

WAC NO :
IDHS CODE:

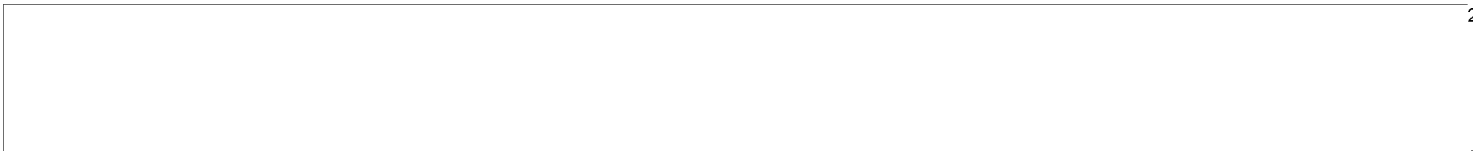
BE/OBJ No:
EPF CAT : 40H

UR
NPIC NO :
COMIREX NO:

25X1

THIS REPORT PRESENTS A PHOTOGRAPHIC ANALYSIS OF THE INTERCOSMOS 10, AN ENVIRONMENTAL RESEARCH SATELLITE. IT INCLUDES A BASIC DESCRIPTION, STRUCTURAL AND MENSURAL ANALYSIS, SELECTED PHOTOGRAPHY, AND ENGINEERING DRAWINGS.

THE INTERCOSMOS 10 SATELLITE, OF CYLINDRICAL DESIGN WITH DOMED ENDS, HAS A MAIN BODY LENGTH OF 196CM AND A DIAMETER OF 78CM. WITH ITS WRAP-AROUND SOLAR PANELS AND INSTRUMENTATION DEPLOYED, THE SIZE INCREASES TO A LENGTH OF 330CM AND A SPAN OF 203CM.



25X1

1770
TOP SECRET CHESS RUFF



25X1

Page Denied

TOP SECRET CHESS RUFF

25X1

25X1

AF BIIR RFB22-5005-77 APR 77 SEC CLASS: 04 MSN: 11P ACCN: S080509

AIRCRAFT, FLAGON E SU-15
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

THIS REPORT PRESENTS AN ANALYSIS OF THE FLAGON E (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. THIS REPORT SUPERSEDES FTD BIIR RFB-22/5002/75, FLAGON E, AUGUST 1974.

THE FLAGON E IS AN ALL-WEATHER JET INTERCEPTOR EMPLOYING TWO ANAB (AA-3) AIR-TO-AIR MISSILES AS ARMAMENT. THIS AIRCRAFT HAS A FUSELAGE

25X1

ARMY DSIIR RAC24-3002-77 MAR 77 SEC CLASS: 13 MSN: 14P ACCN: S080510

ELECTRONICS, ECM EQUIPMENT LOCS BALTIC MD UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:
HAAPSALU SA-2 SITE A26 ECM EQUIPMENT UR 585553N 0232642E
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 16-D
IDHS CODE: EPF CAT : 25C COMIREX NO:
PLUNGE ARMY BARRACKS AL1 ECM EQUIPMENT UR 555514N 0215142E
WAC NO : 0168 BE/OBJ NO: NPIC NO : - 184
IDHS CODE: EPF CAT : 35A COMIREX NO:
KALININGRAD ARMY BARRACKS KUMMERAU ECM EQUIP UR 544401N 0203215E
WAC NO : 0169 BE/OBJ NO: NPIC NO : - 59-K
IDHS CODE: EPF CAT : 35A COMIREX NO:
BALTIYSK AIR DEFENSE SECTOR HQ ECM EQUIPMENT UR 543945N 0195440E
WAC NO : 0169 BE/OBJ NO: NPIC NO : - 6-E2
IDHS CODE: EPF CAT : 25H COMIREX NO:
PRIMORSK ECM SITE UR 544235N 0195655E
WAC NO : 0169 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:
ZELENOGRADSK ECM SITE UR 545636N 0202442E
WAC NO : 0169 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

25X1

25X1

25X1

25X1

25X1

225X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1772
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT PROVIDES THE LOCATIONS OF ALL KNOWN MOBILE GROUND-BASED ELECTRONICS COUNTERMEASURES (ECM) EQUIPMENT IN THE BAL TIC MILITARY DISTRICT, USSR. INFORMATION CONTAINED IN THIS REPORT WAS DERIVED FROM SATELLITE IMAGERY.

THIS REPORT CONTAINS FOUR PAGES OF TEXT, SIX ANNOTATED PHOTOGRAPHS, A BRIEF DESCRIPTION OF THE INSTALLATIONS, AND IDENTIFIES THE LARGEST NUMBER OF EACH TYPE OF ECM EQUIPMENT DEPLOYED AT EACH INSTALLATION. INFORMATION IS CURRENT AS OF NOVEMBER 1976.

AF BIIR RFB22-0007-77 MAR 77 [] SEC CLASS: 13 MSN: [] 14P ACCN: 5080511 25X1

PLESETSK MTC SPACE SITE 27 PADS 1/2 U/C UR 625423N 0404715E
WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 27-X 25X1
IDHS CODE: [] EPF CAT : 40H COMIREX NO: [] 25X1
SPACE, LAUNCH PADS PLESETSK MTC SITE 27 UR
WAC NO : [] NPIC NO : [] 25X1
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

THIS REPORT PROVIDES A PHOTOGRAPHIC ANALYSIS OF THE TWO LAUNCH PADS CURRENTLY UNDER CONSTRUCTION AT THE PLESETSK MISSILE AND SPACE CENTER (PMSC), LAUNCH SITE 27. A LOCATION MAP, ENGINEERING DRAWINGS, SELECTED PHOTOGRAPHY, AND A NARRATIVE DESCRIPTION COMPRISE THIS ANALYSIS.

THE TWO LAUNCH PAD STRUCTURES ARE PRESENTLY ASSESSED TO BE IDENTICAL, EACH BEING 53M LONG BY 19M WIDE AND HAVING [] VERTICAL WALL HEIGHT. PENDING FINAL COMPLETION OF EACH LAUNCH PAD, IT IS ASSUMED THAT THE ACTUAL LAUNCH PAD SURFACE WILL OCCUPY THE ENTIRE 53-M BY 19-M PLANFORM (TOP) OF THE LAUNCH PAD SUBSTRUCTURE. AN IN-PAD EXHAUST PORT WITH AN INTEGRAL LAUNCH STAND, A FLAME PIT, AN EXHAUST CHUTE, IN-PAD ERECTOR, AND BURIED CONDUITS FOR INTRAFACILITY COMMUNICATION/TRAFFIC ARE FEATURES OF EACH LAUNCH PAD STRUCTURE. LAUNCH-PAD-TO-LAUNCH-PAD ALIGNMENT [] THE SEPARATION DISTANCE BETWEEN IN-PAD EXHAUST PORTS ON EACH LAUNCH PAD [] THE LAUNCH PADS WILL BE RAIL SERVED; HOWEVER, NO PREPARATIONS FOR A TRACK-MOUNTED MISSILE GANTRY HAVE BEEN IDENTIFIED. ANCILLARY SUPPORT STRUCTURES INCLUDE PROPELLANT STORAGE, OPERATIONAL CONTROL, AND OTHER MISCELLANEOUS BUILDINGS. 25X1
25X1

THIS REPORT SUPERSEDES FTD BIIR RFB-22/0025/75, [] LAUNCH PAD SUBSTRUCTURE, PLESETSK MISSILE AND SPACE CENTER (PMSC), LAUNCH SITE 27, USSR, AUGUST 1975. 25X1

AF BIIR RFB22-5003-77 APR 77 SEC CLASS: 05 MSN: 22P ACCN: 5080512

AIRCRAFT, FOXBAT A MIG-25 UR
WAC NO : [] BE/OBJ NO: 610025 NPIC NO : []
IDHS CODE: [] EPF CAT : 05D COMIREX NO: []

THIS REPORT PRESENTS AN ANALYSIS OF THE FOXBAT A (MIG-25), A SINGLE-PLACE, TWIN ENGINE, SWEPTWING JET INTERCEPTOR DESIGNED BY THE A.I. MIKOYAN SPECIAL DESIGN BUREAU (OKB). THE REPORT INCLUDES A BASIC DESCRIPTION, ENGINEERING DRAWINGS, AND SELECTED PHOTOGRAPHY OF THE AIRCRAFT.

THE FOXBAT A HAS A FUSELAGE [] THE WINGTIP MASS BALANCE PROBES. 25X1

1773
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ARMY NOTE 12-77 APR 77 SEC CLASS: 05 MSN: 3P ACCN: S080513

PYONGYANG AIR DEFENSE COMMAND CENTER KN 390030N 1254858E
WAC NO : 0380 BE/OBJ NO: NPIC NO : - 11-A9
IDHS CODE: EPF CAT : 25H COMIREX NO:

25X1
25X1

CONFIRMATION, IN PART, OF AN INFORMATION REPORT BY SATELLITE PHOTOGRAPHY HAS PROVIDED IDENTIFICATION OF A PROBABLE AIR DEFENSE COMMAND CENTER IN NORTH KOREA.

AF STDY 1-77 JAN 77 SEC CLASS: 05 MSN: 161P ACCN: S080514

MILITARY, DEFENSE STRUCTURES KOREAN DMZ KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, DEFENSE STRUCTURES KOREAN DMZ KS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS STUDY OF THE CHORWON CORRIDOR (PASSIVE DEFENSE STRUCTURES), IS THE SECOND IN A SERIES DEVELOPED FROM PHOTO INTELLIGENCE SOURCES OF THE KOREAN DMZ. ANTI-TANK OBSTACLES/DITCHES, DAMS, AND OTHER PASSIVE DEFENSE STRUCTURES ARE DESCRIBED.*

25X1

DIA STDY DST1070S-011-77 MAR 77 SEC CLASS: 25F MSN: 384P ACCN: S080514 25X1

1774
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

EMBA MTC
WAC NO : 0236 BE/OBJ NO: [] UR 483800N 0580300E
IDHS CODE: [] EPF CAT : 40E NPIC NO : - 22
COMIREX NO: []

25X1
25X25X1

THIS REPORT IS A COMPILATION OF THE AVAILABLE INTELLIGENCE INFORMATION CONCERNING THE LAUNCH FACILITIES, SUPPORT FACILITIES, RANGE DESCRIPTION AND ENVIRONMENT, RANGE OPERATION AND CONTROL, RANGE INSTRUMENTATION, AND RANGE ACTIVITIES RELATING TO SYSTEM MODIFICATIONS OR NEW DEVELOPMENT PROGRAMS AT THE EMBA MISSILE TEST RANGE.

AF DSIIR REE04-8006-77 10 APR 77 SEC CLASS: 05B MSN: [] 22P ACCN: S080518

25X1

MISSILES, SA-8 SYSTEM DEVELOPMENTS/DEPLOYMENT UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1
25X1

MISSILES, SA-8 TRANSPORTER-ERECTOR-LAUNCHER UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1

MISSILES, SA-8 RESUPPLY VEHICLE UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1

ELECTRONICS, LAND ROLL RADAR SYS SA-8 ASSOC UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

THIS DIRECT SUPPORT IMAGERY INTERPRETATION REPORT (DSIIR) PRESENTS INFORMATION ON THE SA-8/GECKO SURFACE-TO-AIR MISSILE (SAM) SYSTEM. IT INCLUDES A BASIC DESCRIPTION OF THE SA-8 MISSILE SYSTEM, ITS ASSOCIATED EQUIPMENT, ORGANIZATIONAL STRUCTURE, A BRIEF SUMMARY OF ITS INITIAL DEPLOYMENT, AND ITS INTRODUCTION INTO THE FORWARD AREA. THE REPORT IS A SYNOPSIS OF PREVIOUS ASSESSMENTS OF THE SA-8 AND SERVES AS AN UPDATE OF RECENT GECKO DEVELOPMENTS INCLUDING THE FIRST SIGHTING OF EQUIPMENT IN EAST GERMANY; IT IS NOT INTENDED TO BE AN INCLUSIVE TECHNICAL ANALYSIS OF THE SA-8. THE INFORMATION IS CURRENT AS OF APRIL 1977

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.1775
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1



25X1

DIA	IIM	5B2-57252-77	JUL 77	<input type="text"/>	SEC CLASS: 14B	MSN: <input type="text"/>	9P	ACCN: S080523	25X1
		LIEPAJA PORT FACILITIES COMMERCIAL			UR	563118N 0205913E			25X1
		WAC NO : 0152		BE/OBJ NO: <input type="text"/>		NPIC NO : - 3-C			25X1
		IDHS CODE: <input type="text"/>		EPF CAT : 75I		COMIREX NO:			25X1
DIA	IIM	5B2-57269-77	JUL 77	<input type="text"/>	SEC CLASS: 14	MSN: <input type="text"/>	6P	ACCN: S080524	25X1
		SOKOLOVKA PORT FACILITIES			UR	425426N 1335355E			25X1
		WAC NO : 0291		BE/OBJ NO: <input type="text"/>		NPIC NO : - 62-C			25X1
		IDHS CODE: <input type="text"/>		EPF CAT : 75I		COMIREX NO:			25X1
DIA	IIM	5B3-57279-77	21 JUL 77	<input type="text"/>	SEC CLASS: 13	MSN: <input type="text"/>	3P	ACCN: S080525	25X1
		NARYAN MAR AIRFIELD			UR	673714N 0530240E			25X1

1776
TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

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25X1

	WAC NO : 0093	BE/OBJ NO: []	NPIC NO : - 4-D		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []		25X15X1
DIA IIM	5B3-57297-77	21 JUL 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: S080526 25X1
	ROPSHA AIRFIELD			UR 594210N 0294912E	
	WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 36-Z3		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO:		25X1
DIA IIM	5B3-57284-77	21 JUL 77	[]	SEC CLASS: 13 MSN: []	2P ACCN: S080527 25X1
	NIKIFOROVSKAYA/SHENKURSK AIRFIELD			UR 620645N 0425320E	
	WAC NO : 0102	BE/OBJ NO: []	NPIC NO : - 55		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO:		25X1
DIA IIM	5B3-57285-77	21 JUL 77	[]	SEC CLASS: 13 MSN: []	4P ACCN: S080528 25X1
	RZHEV/BAKHUTOVO AIRFIELD			UR 562218N 0340520E	
	WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 50-I		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO:		25X1
DIA IIM	5B3-57287-77	21 JUL 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: S080529 25X1
	NEFTEYUGANSK AIRFIELD			UR 610604N 0723846E	
	WAC NO : 0099	BE/OBJ NO: []	NPIC NO : - 8		25X1
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO:		25X1
DIA IIM	5B2-52892-77	JUL 77	[]	SEC CLASS: 14 MSN: []	12P ACCN: S080530 25X1
	PARNU PORT FACILITIES			UR 582310N 0242928E	
	WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 51-D		25X1
	IDHS CODE: []	EPF CAT : 751	COMIREX NO:		25X1
DIA NBRG	NDA07-5292-77	21 JUL 77	[]	SEC CLASS: 05B MSN:	1P ACCN: S080531
	YEREVAN ARMY BARRACKS KANAKER AL6			UR 401321N 0443252E	
	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 68-K		25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA NBRG	NDA07-5293-77	21 JUL 77	[]	SEC CLASS: 05B MSN:	1P ACCN: S080532
	KIROVAKAN ARMY BARRACKS SOUTH AL3			UR 404826N 0442858E	
	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 28-B		25X1

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1777
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



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	IDHS CODE: <input type="text"/>	EPF CAT : 35A	COMIREX NO: <input type="text"/>				
DIA	NBRG	NDA07-5294-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080533
	KIROVAKAN ARMY BARRACKS SE AL2			UR	404802N 0442955E		
	WAC NO	: 0325	BE/OBJ NO: <input type="text"/>	NPIC NO	: - 28-B1		
	IDHS CODE:	<input type="text"/>	EPF CAT : 35A	COMIREX NO:	<input type="text"/>		
DIA	NBRG	NDA07-5295-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080534
	ECHMIADZIN ARMY BARRACKS CENTRAL AL5			UR	401010N 0441740E		
	WAC NO	: 0325	BE/OBJ NO: <input type="text"/>	NPIC NO	: - 68-P3		
	IDHS CODE:	<input type="text"/>	EPF CAT : 35A	COMIREX NO:	<input type="text"/>		
DIA	NBRG	NDA07-5296-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080535
	BAKU ARMY BARRACKS PUTA NORTH AL27			UR	402041N 0493917E		
	WAC NO	: 0325	BE/OBJ NO: <input type="text"/>	NPIC NO	: - 8-U2		
	IDHS CODE:	<input type="text"/>	EPF CAT : 35A	COMIREX NO:	<input type="text"/>		
DIA	NBRG	NDA07-5297-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080536
	LENKORAN ARMY BARRACKS AL1			UR	384515N 0485125E		
	WAC NO	: 0339	BE/OBJ NO: <input type="text"/>	NPIC NO	: - 7-B		
	IDHS CODE:	<input type="text"/>	EPF CAT : 35A	COMIREX NO:	<input type="text"/>		
DIA	NBRG	NDA07-5298-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080537
	LENKORAN ARMY BARRACKS NORTH AL4			UR	384620N 0485039E		
	WAC NO	: 0339	BE/OBJ NO: <input type="text"/>	NPIC NO	: - 7-B2		
	IDHS CODE:	<input type="text"/>	EPF CAT : 35A	COMIREX NO:	<input type="text"/>		
DIA	NBRG	NDA07-5299-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080538
	LENKORAN ARMY BARRACKS NNW AL5			UR	384605N 0485115E		
	WAC NO	: 0339	BE/OBJ NO: <input type="text"/>	NPIC NO	: - 7-B3		
	IDHS CODE:	<input type="text"/>	EPF CAT : 35A	COMIREX NO:	<input type="text"/>		
DIA	NBRG	NDA06-5072-77	13 JUL 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080539
	LUTA NAVAL FACILITIES APPROACHES			CH	3855 N 12137 E		
	WAC NO	: 0381	BE/OBJ NO: <input type="text"/>	NPIC NO	:		
	IDHS CODE:	<input type="text"/>	EPF CAT : 75	COMIREX NO:	<input type="text"/>		

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1778

TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

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DIA	NBRG	NDA06-5073-77	13 JUL 77	SEC CLASS: 05G	MSN:	1P	ACCN: S080540
		LUTA SHIPYARD DAIREN		CH	385559N 1213816E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO	: - 18-C		25X1
		IDHS CODE: []	EPF CAT : 75E	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5300-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080541
		CEGLED ARMY BARRACKS SE 1/HEADQUARTERS CORPS		HU	470930N 0195030E		
		WAC NO : 0251	BE/OBJ NO: []	NPIC NO	: - 219-A		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5301-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080542
		KISKOROS ARMY BARRACKS ADANY ARON 1/2		HU	463621N 0191815E		
		WAC NO : 0251	BE/OBJ NO: []	NPIC NO	: - 59-C		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5302-77	21 JUL 77	SEC CLASS: 05B	MSN:	1P	ACCN: S080543
		BANJA LUKA ARMY BARRACKS NORTH 4		YO	444820N 0171216E		
		WAC NO : 0252	BE/OBJ NO: []	NPIC NO	: - 118-B		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	BIIR	RDA05-0002-77	JUL 77	SEC CLASS: 14B	MSN: []	9P	ACCN: S080544
		PLESETSK/PLESTSY AIRFIELD GCA SITE		UR	624257N 0402927E		
		WAC NO : 0102	BE/OBJ NO: []	NPIC NO	:		25X1
		IDHS CODE: []	EPF CAT : 25H	COMIREX NO:	[]		25X1
		PLESETSK/PLESTSY AIRFIELD		UR	624256N 0402909E		
		WAC NO : 0102	BE/OBJ NO: []	NPIC NO	: - 60		25X1
		IDHS CODE: []	EPF CAT : 05A	COMIREX NO:	[]		25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF PLESETSK/PLESTSY AIRFIELD FROM JUNE 1971 THROUGH JUNE 1976. THE BASE, WHICH IS 9 KILOMETERS EAST OF THE CITY OF PLESETSK IN NORTHEAST U.S.S.R., IS THE MAIN AIRFIELD SUPPORTING THE PLESETSK MISSILE AND SPACE CENTER. SIGNIFICANT CHANGES AT THE BASE DURING THE REPORTING PERIOD INCLUDED CONSTRUCTION OF NUMEROUS SUPPORT BUILDINGS AND INITIAL CONSTRUCTION OF A PARALLEL TAXIWAY. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 2,017M X 51M CONCRETE RUNWAY, TAXIWAYS AND AIRCRAFT PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH A TOTAL ESTIMATED CAPACITY OF 2,366,510 LITERS, AIRCRAFT MAINTENANCE, ACCOMMODATIONS, TRANSPORTATION, DEFENSES, AND SECURITY. AOB [] WAS ONE CAB, ONE HOPLITE, TWO HIP-C, SIX COLT, EIGHT CUB, AND NINE HOUND.

25X1

1779
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NPIC MCS MCS005-77 JUL 77 [] SEC CLASS: 14A MSN: [] 321P

ACCN: S080545 25X1
25X1

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

DIA BIIR RDA11-0003-77 JUL 77 [] SEC CLASS: 14B MSN: [] 8P

ACCN: S080546 25X1

GYOR ARMORED VEHICLE PLANT HU 474133N 0174143E
WAC NO : 0252 BE/OBJ NO: [] NPIC NO : - 22-C3
IDHS CODE: [] EPF CAT : 356 COMIREX NO: []

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF GYOR ARMORED VEHICLE PLANT IN NORTHWEST HUNGARY. THE RAIL-SERVED, WALL ENCLOSED PLANT ENCOMPASSES 137 HECTARES AND CONTAINS 44 BUILDINGS WITH A TOTAL OF 161,397 SQUARE METERS OF ROOF COVER. FROM SEPTEMBER 1969 THROUGH AUGUST 1973 OT-65/FUG-70 ARMORED PERSONNEL CARRIERS WERE ASSEMBLED AT THE PLANT. THE PLANT CURRENTLY PRODUCES FRONT- AND REAR-DRIVE AXLE ASSEMBLY UNITS FOR HEAVY-DUTY VEHICLES.

NPIC BIIR RCA05-0002-77 JUL 77 [] SEC CLASS: 14D MSN: [] 9P

ACCN: S080547 25X1

AIRFIELDS, AIR FORCE ACTIVITY SUMMARY KN
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:

THIS SPECIAL BASIC REPORT SUMMARIZES INFORMATION ON JET-CAPABLE AIRFIELDS, TRANSPORT/UTILITY AIRFIELDS, HIGHWAY AIRSTRIPS, AND AIR ORDER-OF-BATTLE IN NORTH KOREA. THE DATA IN THIS REPORT IS DERIVED FROM KEYHOLE PHOTOGRAPHY ACQUIRED BETWEEN AUGUST 1976 AND APRIL 1977 AND UPDATES NPIC [] THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 1 MAY 1977.

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THIS REPORT INCLUDES THREE LOCATION MAPS, FOUR ANNOTATED PHOTOGRAPHS, AND THREE TABLES.

DIA BIIB BDA05-0001-77 JUL 77 [] SEC CLASS: 14D MSN: [] 3P

ACCN: S080548 25X1

CHANGJIN UP AIRFIELD KN 402145N 1271554E
WAC NO : 0290 BE/OBJ NO: [] NPIC NO : - 98-A
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1
25X1

THIS BRIEF UPDATES DIA, RDA-05/0008/72, [] CHANGJIN-UP AIRFIELD, NORTH KOREA, JUL 71 (TOP SECRET RUFF), WHICH IS THE BASIC REPORT FOR THIS INSTALLATION.

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1780
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

25X1

DIA BIIR RDA05-0018-77 JUL 77 SEC CLASS: 14D MSN: 8P ACCN: S080551

25X1

CHIYUAN AIRFIELD	WAC NO : 0385	BE/OBJ NO: []	CH 350703N 1123626E
	IDHS CODE: []	EPF CAT : 05A	NPIC NO : - 77
CHIYUAN AIRFIELD SUPPORT FACILITY A1 U/G U/C	WAC NO : 0385	BE/OBJ NO: []	COMIREX NO: []
	IDHS CODE: []	EPF CAT : 05A	CH 350825N 1123510E
CHIYUAN AIRFIELD SUPPORT FACILITY A U/G U/C	WAC NO : 0385	BE/OBJ NO: []	NPIC NO :
	IDHS CODE: []	EPF CAT : 05A	COMIREX NO:
CHIYUAN AIRFIELD SUPPORT FACILITY A2 U/G U/C	WAC NO : 0385	BE/OBJ NO: []	CH 350825N 1123510E
	IDHS CODE: []	EPF CAT : 05A	NPIC NO :
			COMIREX NO:
			CH 350700N 1123700E
			NPIC NO :
			COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF CHI-YUAN AIRFIELD AND ASSOCIATED FACILITIES DURING THE PERIOD JULY 1970 TO NOVEMBER 1976. THE BASE IS IN EAST-CENTRAL PEOPLE'S REPUBLIC OF CHINA. ON [] THE AIRFIELD WAS IN A LATE STAGE OF CONSTRUCTION. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 2,598M X 63M CONCRETE MAIN RUNWAY, A 1,998M X 29M CONCRETE AUXILIARY RUNWAY, TAXIWAYS AND

25X1

1781
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

PARKING FACILITIES, ACCOMMODATIONS, AND TRANSPORTATION. NO POL STORAGE FACILITIES WERE OBSERVED AT THE AIRFIELD. NO AOB WAS PRESENT AT THE BASE.

25X1

DIA BIIB BDA11-0002-77 JUL 77 SEC CLASS: 14D MSN 2P ACCN: S080554 25X1

CH 300610N 1184130E
WAC NO : 0493 BE/OBJ NO: NPIC NO : - 13-A1
IDHS CODE: EPF CAT : 356 COMIREX NO:

25X1
25X1

1782
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT UPDATES DIA, RDA-11/0038/75, [REDACTED] CHI-HSI TACTICAL ROCKET COMPLEX, CHINA, NOV 75 (TOP SECRET RUFF), WHICH IS THE BASIC REPORT FOR THIS INSTALLATION. ALL PERTINENT IMAGERY AVAILABLE ON THE REPORTING CUTOFF DATE OF 31 DECEMBER 1976 HAS BEEN UTILIZED.

25X1

NPIC MIPIR CA0023-77 02 JUL 77 [REDACTED] SEC CLASS: 14 MSN: 189P ACCN: S080555 25X1

MIPIR 018/023

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 15A COMIREX NO:

NPIC MIPIR CA0027-77 08 JUL 77 [REDACTED] SEC CLASS: 14 MSN: 119P ACCN: S080556 25X1

MIPIR 024/027

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 15A COMIREX NO:

NPIC MIPIR CA0032-77 15 JUL 77 [REDACTED] SEC CLASS: 14 MSN: 154P ACCN: S080557 25X1

MIPIR 028/032

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 15A COMIREX NO:

NPIC MIPIR CA0037-77 22 JUL 77 [REDACTED] SEC CLASS: 14 MSN: 191P ACCN: S080558 25X1

MIPIR 033/037

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 15A COMIREX NO:

25X1

DIA IIM 5B1-57242-77 JUL 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 4P ACCN: S080561 25X1

WARSAWA MILITARY STORAGE FACIL GENERAL 540 PL 521638N 0205438E

25X1

1783
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

WAC NO : 0169
IDHS CODE: [Redacted]

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

NPIC NO : - 164-B1
COMIREX NO: [Redacted]

25X1
25X1

[Large Redacted Block]

25X1

DIA IIM 5B1-57277-77 19 JUL 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 1P ACCN: S08056 25X1

TYNISTE NAD ORLICI GROUND FORCE INSTL SEARCH CZ 5011 N 01604 E
WAC NO : 0232 BE/OBJ NO: [Redacted] NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 35A COMIREX NO:

25X1

DIA IIM 5B3-57288-77 22 JUL 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S08056 25X1

NOVGOROD AIRFIELD SW UR 582947N 0311347E
WAC NO : 0153 BE/OBJ NO: [Redacted] NPIC NO : - 46-D1
IDHS CODE: [Redacted] EPF CAT : 05A COMIREX NO:

25X1

25X1

25X1

[Large Redacted Block]

DIA IIM 5B3-57309-77 25 JUL 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S08056 25X1

NAGURSKOYE AIRFIELD UR 804803N 0473834E
WAC NO : 0011 BE/OBJ NO: [Redacted] NPIC NO : - 3

25X1

1784
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
 DIA IIM 5B3-57310-77 25 JUL 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080569 25X1
 NAGURSKOYE AIRFIELD SW UR 804748N 0472126E 25X1
 WAC NO : 0011 BE/OBJ NO: [] NPIC NO : - 3-B 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
 DIA IIM 5B3-57311-77 25 JUL 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S080570 25X1
 OSTASHKOV/KRAPIVNYA AIRFIELD UR 570440N 0332324E 25X1
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 43-A 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1
 DIA IIM 5B1-57237-77 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080571 25X1
 JIHLAVA SA-4 SITE SEARCH CZ 4924 N 01535 E
 WAC NO : 0231 BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 40C COMIREX NO: [] 25X1
 AF BIIR RFB22-5004-77 MAY 77 SEC CLASS: 08 MSN: [] 14P ACCN: S080572
 AIRCRAFT, FORGER A YAK-36 UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 05D COMIREX NO: [] 25X1

THIS REPORT PRESENTS AN ANALYSIS OF THE FORGER A (YAK-36), A V/STOL FIGHTER PRODUCED BY THE A.S. YAKOVLEV DESIGN BUREAU. THE FORGER A IS A SINGLE-SEAT, CLIPPED-DELTA WING AIRCRAFT EMPLOYING A VECTORING-NOZZLE CRUISE ENGINE AND TWO VERTICAL LIFT ENGINES. THE REPORT INCLUDES A BASIC DESCRIPTION, ENGINEERING DRAWINGS, AND SELECTED PHOTOGRAPHY OF THE AIRCRAFT. THE FORGER A HAS A FUSELAGE LENGTH OF 15.5M AND A WINGSPAN OF 7M.

AF BIIR RFB22-5006-77 APR 77 SEC CLASS: 07 MSN: [] 10P ACCN: S080573
 ELECTRONICS, MARS COMSAT TML TRANSPORTABLE UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

THIS REPORT PRESENTS A PHOTOGRAPHIC ANALYSIS OF THE SOVIET TRANSPORTABLE COMSAT TERMINAL (MARS). THE REPORT INCLUDES A BASIC DESCRIPTION, AN ENGINEERING DRAWING, AND SELECTED PHOTOGRAPHY. THE TERMINAL CONSISTS OF A 7-METER DIAMETER, SOLID, PARABOLIC DISH REFLECTOR WITH A CASSEGRAIN FEED SYSTEM. THE REFLECTOR, ATTACHED TO AN ELEVATION-OVER-AZIMUTH MOUNT, IS SUPPORTED BY A CYLINDRICAL PEDESTAL. THIS PEDESTAL IS ENCLOSED AND SUPPORTED BY THREE UNIQUE TRANSCIEVER VANS.

1785
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA STDY DDI1300-087-77 APR 77 [] SEC CLASS: 13 MSN: 10P ACCN: S0805725X1

AIRFIELDS, HANGARETTE CONSTRUCTION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05A COMIREX NO:

DURING THE PAST 2 YEARS, THE SOVIETS HAVE BEGUN HARDENED AIRCRAFT SHELTER (HAS) CONSTRUCTION AT SEVERAL FIGHTER HOME BASES IN THE WESTERN AND SOUTHWESTERN REGIONS OF THE USSR. THESE WERE BYPASSED DURING THE ORIGINAL HAS CONSTRUCTION EFFORT IN 1968-1972. THE LOWER PRIORITY ASSIGNED THESE BASES PROBABLY IS DUE TO THEIR INTERIOR LOCATIONS AND THE OLDER AIRCRAFT ASSIGNED THERE. SIMULTANEOUSLY, MODIFICATIONS TO SMALL EXISTING HANGARETTES, WHICH WILL ENABLE THEM TO SHELTER LARGER AIRCRAFT, HAVE BEEN OBSERVED AT THREE AIR DEFENSE AVIATION (APVO) HOME BASES. BASED UPON PREVIOUS SOVIET PRACTICE, CONSTRUCTION OF HANGARETTES IS LIKELY TO BE UNDERTAKEN AT FIVE AIRFIELDS AND TO CONTINUE AT EIGHT OTHERS IN THIS AREA. IN ADDITION, MODIFICATIONS TO ENLARGE HANGARETTES ARE EXPECTED TO CONTINUE AT THE THREE AIRFIELDS WHERE THEY HAVE ALREADY BEEN OBSERVED.

DIA STDY DST1170R-395-77 APR 77 [] SEC CLASS: 25B MSN: 29P ACCN: S080525X1

ELECTRONICS, COMMAND CONTROL SA-9/ZSU-23/4 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS REPORT PRESENTS A STUDY OF THE COMMAND, CONTROL, AND COMMUNICATIONS ASSOCIATED WITH THE SOVIET ANTI-AIRCRAFT MISSILE AND ARTILLERY BATTERY WHICH IS COMPOSED OF THE SA-9 MISSILE SYSTEM AND THE ZSU-23/4 ANTI-AIRCRAFT ARTILLERY SYSTEM. ALSO INCLUDED ARE CURRENTLY INDICATED EMPLOYMENT PROCEDURES FOR THESE TWO AIR DEFENSE SYSTEMS.

25X1

1786
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Redacted]

25X1

NPIC REPT [Redacted] 01 JUN 77 [Redacted] SEC CLASS: 25 MSN: 69P ACCN: S080578

25X1

PHOTO, IMAGERY ASSESSMENT INTERIM REPORT
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:

NAVY DSIIR RMC06-8002-77 MAY 77 SEC CLASS: 05 MSN: 194P ACCN: S080579

NAVAL, EAST SEA FLEET INSTALLATIONS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

DIA STDY DST2610R-421-77 10 MAY 77 [Redacted] SEC CLASS: 25 MSN: [Redacted] 16P ACCN: S080580

25X1

ELECTRONICS, COMMAND CNTRL FACS AIR DEF HARD UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:

THIS STUDY IDENTIFIES MODIFICATIONS PROVIDING IMPROVEMENTS IN SURVIVABILITY WITHIN PVO STRANGY COMMAND, CONTROL, AND COMMUNICATIONS FACILITIES AND SUPPORTING AIR DEFENSE DISTRICT AND ZONE HEADQUARTERS.*

DIA STDY DST1020S-110-77 15 JUL 77 [Redacted] SEC CLASS: 25 MSN: 32P ACCN: S080581

25X1

MISSILES, SS-NX-18 WEAPON SYSTEM UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:

THE SS-NX-18/DELTA III WEAPON SYSTEM CONSISTS OF THE SS-NX-18 SLBM AND THE NECESSARY SUPPORT, PREPARATION, AND LAUNCH EQUIPMENTS FOUND ON THE SSBN DEPLOYMENT PLATFORM. THE SS-NX-18 SLBM (INITIALLY DESIGNATED NE-2) IS ASSESSED AS BEING A TWO-STAGE LIQUID BIPROPELLANT MISSILE WITH A POST BOOST VEHICLE (PBV) WHICH IS CAPABLE OF RELEASING UP TO THREE INDEPENDENTLY TARGETED REENTRY VEHICLES. THE SS-NX-18 HAS BEEN TESTED IN TWO CONFIGURATIONS, ONE VERSION CARRYING A MIRV PAYLOAD AND THE OTHER A SINGLE RV. THE MIRV

25X1

1787
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

25X1

VERSION IS ASSESSED TO HAVE A MAXIMUM BOOSTER RANGE (NRE) OF ABOUT 6,500 KM CARRYING THREE 175-KG RV'S. THE SINGLE RV VERSION IS ASSESSED TO HAVE A MAXIMUM BOOSTER RANGE OF ABOUT 8,000 KM WITH THE RV PROBABLY WEIGHING ABOUT 285 KG. THESE RANGES CAN BE CONSIDERABLY ENHANCED BY USING THE PBV FOR RANGE EXTENSION. THE DEPLOYMENT PLATFORMS ARE BELIEVED TO BE THE SEVERODVINSK SHIPYARD-PRODUCED DELTA III CLASS SSBN UNITS, STARTING WITH WHAT WAS INITIALLY BELIEVED TO BE DELTA II UNIT NUMBER 5. THESE SSBN'S ARE CONFIGURED WITH MISSILE DECKS WHICH ARE ABOUT 1.0 METER HIGHER THAN THOSE OF THE FOUR DELTA II UNITS. THIS INCREASED MISSILE DECK HEIGHT ALLOWS FOR A LONGER MISSILE TUBE, [REDACTED] WHICH IS NECESSARY TO ACCOMMODATE

25X1

[REDACTED] SS-NX-18 MISSILE. THERE IS ALSO A POSSIBILITY THAT THESE UNITS HAVE A DROPPED KEEL IN THE MISSILE BAY AREA. THE FOUR UNITS OF THE DELTA II CLASS ARE BELIEVED TO BE CONFIGURED WITH THE SS-N-8 WEAPON SYSTEM AND HAVE MISSILE TUBES [REDACTED]

25X1

THIS STUDY IS INTENDED TO PROVIDE ADDITIONAL INFORMATION ON THE SS-NX-18/DELTA III WEAPON SYSTEM WHICH IS AVAILABLE ONLY AT AN SI/SAO CLASSIFICATION. SELECTED SUBSYSTEM TECHNICAL CHARACTERISTICS ARE INCLUDED IN THIS STUDY FOR COMPLETENESS; HOWEVER, A MORE COMPLETE ASSESSMENT IS PROVIDED IN THE BASIC STUDY, SS-NX-18 SLBM WEAPON SYSTEM (U), DST-10205-110-77.

DIA STDY DST1270S-121-77 APR 77 [REDACTED] SEC CLASS: 25 MSN: [REDACTED] 83P ACCN: S080582 25X1

ELECTRONICS, COMMAND CONTROL SYSTEMS NAVAL CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25I COMIREX NO:

THIS STUDY SURVEYS THE PEOPLE'S REPUBLIC OF CHINA NAVAL COMMAND AND CONTROL COMMUNICATIONS. OF SPECIAL INTEREST IS THE GROWING CAPABILITY OF THE PRC NAVY TO SUPPORT SUBMARINE OR SUBMARINE-RELATED OPERATIONS OUTSIDE THE NORMAL COASTAL CONFINES OF THE CHINESE MAINLAND. ADDITIONAL ATTENTION IS GIVEN TO ADVANCES IN NEW COMBATANT CONSTRUCTION PROGRAMS WHICH HAVE DIRECT IMPLICATIONS FOR COMMAND AND CONTROL. THE INFORMATION CUTOFF DATE FOR THIS PUBLICATION IS 1 MARCH 1977.

DIA STDY DST2610R-359-77 31 MAY 77 [REDACTED] SEC CLASS: 25 MSN: [REDACTED] 19P ACCN: S080583 25X1

ELECTRONICS, COMMAND CONTROL CAPABILITIES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS REPORT WAS PRODUCED TO HIGHLIGHT RECENT DEVELOPMENTS IN THE COMMAND AND CONTROL COMMUNICATIONS CAPABILITIES OF THE SOVIET CIVIL AND MILITARY LEADERSHIP. IT FOCUSES ON COMMUNICATIONS SATELLITE SYSTEM USAGE AND THE CONTINUED EMPHASIS ON CONVENTIONAL RADIO SYSTEMS.

FOR MORE DETAILED INFORMATION ON THE CHARACTERISTICS AND CAPABILITIES OF SOVIET COMMUNICATIONS SATELLITE SYSTEMS, SEE DST-1430S-028-76, 'COMMUNICATIONS SPACE SYSTEM (USSR)', DATED 4 FEBRUARY 1977, AND DST-1420S-028-77, DATED 11 FEBRUARY 1977.

SAC DSIIR RSF12-8006-77 APR 77 [REDACTED] SEC CLASS: 05 MSN: [REDACTED] 8P ACCN: S080587 25X1

HAEJU RAILROAD STATION CLF YARDS + SHOPS KN 380154N 1254415E

1788
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25A1

WAC NO : 0380
IDHS CODE: 45130

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

NPIC NO :
COMIREX NO:

25X1

HAEJU RAILROAD STATION CLASSIFICATION YARDS AND SHOPS IS LOCATED AT THE SOUTHEAST EDGE OF HAEJU COMPLEX. THE INSTALLATION CONSISTS OF TWO THRU TRACKS, A FOUR TRACK CLASSIFICATION YARD, ONE TURNING WYE, ONE TURNABLE, ONE PASSENGER TERMINAL, THREE CAR REPAIR SHOPS, TWO STORAGE BUILDINGS, AND SEVEN SUPPORT BUILDINGS. THIS INSTALLATION SERVICES THE CITY OF HAEJU AND HAEJU PORT FACILITIES.

SAC DSIIR RSF05-8005-77

APR 77

SEC CLASS: 05

MSN: []

7P

ACCN: S080588

25X1

HAEJU AIRFIELD NE

WAC NO : 0380
IDHS CODE: []

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

KN 380740N 1255110E
NPIC NO : - 19-E5
COMIREX NO: []

25X1
25X1

HAEJU NORTHEAST AIRFIELD IS LOCATED APPROXIMATELY 16 KM NORTHEAST OF HAEJU AND APPROXIMATELY 9 KM SOUTHEAST OF SINWON-NI RESERVOIR. THE AIRFIELD CONSISTS OF ONE SOD RUNWAY APPROXIMATELY 1036 X 61 METERS, 070/250 MAG, WITH NO KNOWN SUPPORT FACILITIES. THE AIRFIELD IS ROAD CONNECTED TO AND PROBABLY SERVICES A MILITARY BARRACKS AREA APPROXIMATELY 425 METERS NORTH. THERE ARE THREE EARTHEN REVETMENTS TO THE SOUTHEAST OF THE RUNWAY AND SIX EARTHEN REVETMENTS NORTH OF THE RUNWAY.

SAC DSIIR RSF05-8004-77

APR 77

SEC CLASS: 05

MSN: []

7P

ACCN: S080589

25X1

ONGJIN AIRFIELD

WAC NO : 0380
IDHS CODE: []

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

KN 375550N 1252518E
NPIC NO : - 25
COMIREX NO:

25X1
25X1

ONGJIN AIRFIELD IS LOCATED 4.6 KM EAST OF ONGJIN, 27.7 KM SOUTHWEST OF HAEJU, AND 61 KM WEST NORTHWEST OF THE DMZ. THE AIRFIELD CONSISTS OF ONE GRADED EARTH RUNWAY, 2042 X 49 METERS, 110/290 MAG. SUPPORT FACILITIES INCLUDE A RAIL TRANSHIPMENT POINT WITH TWENTY MISCELLANEOUS SMALL BUILDINGS, AND A BARRACKS AREA WITH FOUR BARRACKS AND TEN SUPPORT BUILDINGS. NO POL STORAGE IS NOTED.

ONGJIN AIRFIELD CURRENTLY RECEIVES ONLY LIMITED USE. IT IS CONSIDERED TO BE FISHBED CAPABLE. THE PROXIMITY OF ONGJIN TO THE DMZ EXTENDS SIGNIFICANTLY THE OPERATIONAL RADIUS OF NORTH KOREAN AIRCRAFT ON COMBAT MISSIONS AGAINST SOUTH KOREA.

25X1

1789
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

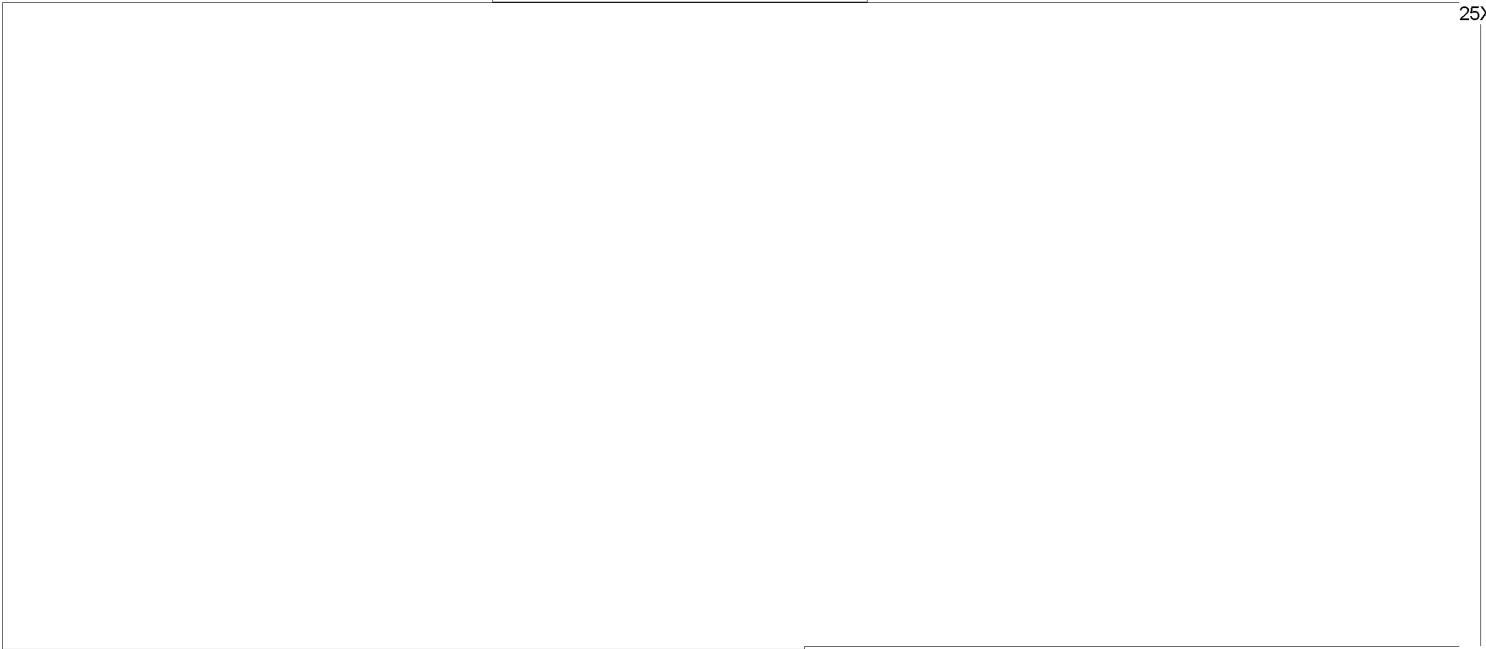
AF PAR 575-77 24 MAY 77 SEC CLASS: 13 MSN: 3P ACCN: S080591 ^{REV}25X1

LENINGRAD SHIPYARD ZHDANOV VYTEGRALES CL MOD UR 595233N 0301406E
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 36-K
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

THIS REPORT PROVIDES A PHOTO ANALYSIS AND MENSURATION OF THE FOUR-DISH ARRAY BEING INSTALLED ON THE VYTEGRALES CLASS SOVIET SPACE EVENTS SUPPORT SHIP (SSESS) AT LENINGRAD SHIPYARD ZHDANOV 190. IT ALSO INCLUDES A SEARCH OF THE STORAGE AREAS NEAR THE DOCK FOR ADDITIONAL ANTENNAS OR ANTENNA COMPONENTS AND A GENERAL CHRONOLOGY STARTING WITH

25X1
25X1



1790
TOP SECRET CHESS RUFF



25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
23A1

[Large Redacted Area]

25X1

DIA NOTE [Redacted] 13 JUN 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S080602 25X1

1791
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

GORKIY MOTOR VEHICLE PLANT BTR-60PB MOD IDENT UR 561448N 0435341E
 WAC NO : 0154 BE/OBJ NO: NPIC NO : - 13-E
 IDHS CODE: EPF CAT : 35G COMIREX NO:
 GORKIY MOTOR VEHICLE PLANT BTR-60PB MOD IDENT UR 561448N 0435341E
 WAC NO : 0154 BE/OBJ NO: NPIC NO : - 13-E
 IDHS CODE: EPF CAT : 85A COMIREX NO:

25X1
25X1
25X1
25X1
25X1

DIA IIM 5B3-57070-77 16 JUN 77 SEC CLASS: 13 MSN: 1P ACCN: S080607

25X1

DOR MARUNT AIRFIELD SEARCH RO 442654N 0265820E
 WAC NO : 0251 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

DIA IIM 5B3-57071-77 16 JUN 77 SEC CLASS: 13 MSN: 1P ACCN: S080607

25X1

RAINIC AIRFIELD SEARCH RO 442750N 0265315E
 WAC NO : 0251 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

DIA IIM 5B3-57088-77 20 JUN 77 SEC CLASS: 13 MSN: 1P ACCN: S080607

25X1

VELIKAYA KEMA AIRFIELD UR 452929N 1371107E
 WAC NO : 0282 BE/OBJ NO: NPIC NO : - 58
 IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1
25X1

1792
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IIR IIR046-77 20 JUN 77 SEC CLASS: 05B MSN: 3P ACCN: 5080609

BANJA LUKA ARMY BKS NORTH 4	FROG EQUIP IDENT	YO 444820N 0171216E
WAC NO : 0252	BE/OBJ NO: []	NPIC NO : - 118-B
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []
ZADAR ARMY BARRACKS/TRNG CTR	SA-9 EQUIP IDENT	YO 440714N 0151401E
WAC NO : 0252	BE/OBJ NO: []	NPIC NO : - 77-A3
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []
ZADAR ARMY BARRACKS/TRNG CTR	SA-9 EQUIP IDENT	YO 440714N 0151401E
WAC NO : 0252	BE/OBJ NO: []	NPIC NO : - 77-A3
IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []
ZADAR ARMY BARRACKS/TRNG CTR	SA-9 EQUIP IDENT	YO 440714N 0151401E
WAC NO : 0252	BE/OBJ NO: []	NPIC NO : - 77-A3
IDHS CODE: []	EPF CAT : 40C	COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

FROG EQUIPMENT WAS IDENTIFIED IN YUGOSLAVIA FOR THE FIRST TIME AT BANJA LUKA ARMY BARRACKS NORTH 004 AND SA-9 EQUIPMENT AT ZADAR ARMY BARRACKS AND TRAINING CENTER 007.

25X1

1793
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1



25X1

NPIC IIR IIR047-77 21 JUN 77 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 3P ACCN: 5080611 25X1

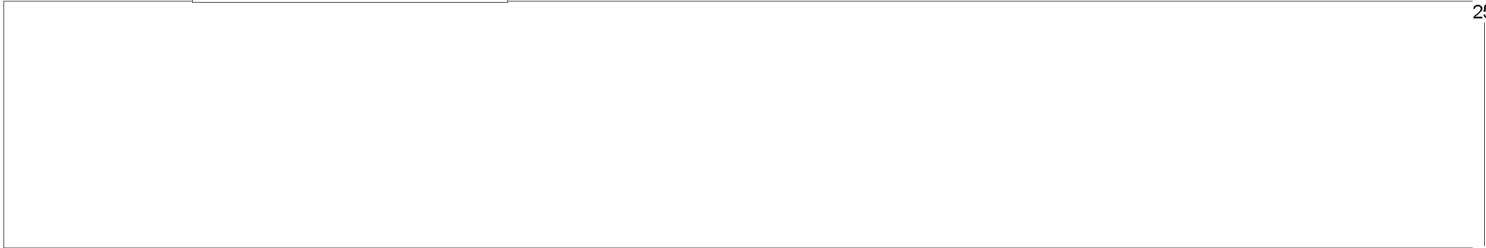
SHIHCHIUANG METAL FAB PLT 3 MIL/ELCT RLTD CH 380109N 1143002E
 WAC NO : 0382 BE/OBJ NO: [REDACTED] NPIC NO : - 11-C5 25X1
 IDHS CODE: [REDACTED] EPF CAT : 30C COMIREX NO: 25X1

SHIHCHIUANG METAL FAB PLT 3 MIL/ELCT RLTD CH 380109N 1143002E
 WAC NO : 0382 BE/OBJ NO: [REDACTED] NPIC NO : - 11-C5 25X1
 IDHS CODE: [REDACTED] EPF CAT : 35G COMIREX NO: 25X1

SHIHCHIUANG METAL FAB PLT 3 MIL/ELCT RLTD CH 380109N 1143002E
 WAC NO : 0382 BE/OBJ NO: [REDACTED] NPIC NO : - 11-C5 25X1
 IDHS CODE: [REDACTED] EPF CAT : 25E COMIREX NO: 25X1

SHIH-CHIA-CHUANG METAL FABRICATION PLANT NUMBER 3 WAS IDENTIFIED AS AN ARTILLERY AND RADAR PRODUCTION PLANT

25X1



25X1

DIA IIM 583-57072-77 23 JUN 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 1P ACCN: 5080613 25X1

VERNOYE/ORLOVKA AIRFIELD UR 511558N 1284318E
 WAC NO : 0203 BE/OBJ NO: [REDACTED] NPIC NO : - 216 25X1
 IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED] 25X1

DIA IIM 583-57073-77 23 JUN 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 1P ACCN: 5080614 25X1

TULUN AIRFIELD NW UR 543455N 1003100E
 WAC NO : 0160 BE/OBJ NO: [REDACTED] NPIC NO : - 4-C 25X1
 IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: 25X1

1794
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B3-57074-77 23 JUN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080615

SHIMANOVSK AIRFIELD

WAC NO : 0203

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : USA

UR 515909N 1273837E

NPIC NO : - 25

COMIREX NO:

25X1

25X1
25X1

DIA IIM 5B3-57075-77 21 JUN 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080616

AIRFIELDS, MUNITIONS REVETMENTS BEAR ASSOC

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05I

UR

NPIC NO :

COMIREX NO:

25X1

THIS REPORT WAS WRITTEN IN RESPONSE TO A REQUEST TO ATTEMPT TO CORRELATE THE AMOUNT OF MUNITIONS STORED IN REVETMENTS ALONG THE FLIGHTLINE TO SPECIFIC MODELS + ROLES OF AIRCRAFT. MOZDOK, DOLON, AND UZIN/CHEPELEVKA - BEAR AIRFIELDS - ARE DISCUSSED.*

DIA IIM 5B3-57094-77 21 JUN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080617

SMOLENSK AIRFIELD BUNKERS U/I

WAC NO : 0167

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 544928N 0320128E

NPIC NO : - 77-A

COMIREX NO: []

25X1

25X1
25X1

DIA IIM 5B3-57096-77 21 JUN 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S080618

AIRFIELDS, MUNITIONS REVETMENTS BISON ASSOC

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05I

UR

NPIC NO :

COMIREX NO:

THIS REPORT WAS WRITTEN IN RESPONSE TO A REQUEST TO CORRELATE THE AMOUNT OF MUNITIONS STORED IN REVETMENTS ALONG THE FLIGHTLINE WITH A SPECIFIC AIRCRAFT MODEL AND ITS ROLE. UKRAINA AND ENGEL AIRFIELDS - BISON BASES - ARE DISCUSSED.*

DIA IIM 5B3-57097-77 22 JUN 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S080619

AIRCRAFT, BEAR F TU-95 DEPLOYMENT

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05

UR

NPIC NO :

COMIREX NO:

25X1

DIA IIM 5B3-57100-77 21 JUN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S080620

ASHKHABAD/BEZMEIN AIRFIELD BLAST DOORS SEARCH

WAC NO : 0338

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 380050N 0581138E

NPIC NO : - 3

COMIREX NO: []

25X1

25X1
25X1

1795

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CIA INFR MSD059-77 12 MAY 77 [] SEC CLASS: 13 MSN: [] 4P

ACCN: S080621 25X1

MAKHACHKALA TALL KING AW RADAR FACILITY UR 425620N 0472620E
WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 35-B1
IDHS CODE: [] EPF CAT : 25A COMIREX NO:

25X1
25X1

MAKHACHKALA AW RADAR FACILITY IS THOUGHT TO BE THE SOURCE OF AN UNIDENTIFIED RADAR SIGNAL THAT HAS BEEN COLLECTED FROM SIGINT SATELLITES SINCE 1975.*

CIA INFR TSD065-77 19 MAY 77 [] SEC CLASS: 13 MSN: [] 5P

ACCN: S080622 25X1

SOSNOVKA BOATYARD SURFACE EFFECT SHIPS UR 561450N 0511650E
WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 17-F
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
KERCH NAVAL BASE + SHPYD SURFACE EFFECT SHIPS UR 451558N 0362504E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 13-B
IDHS CODE: [] EPF CAT : 75B COMIREX NO: []
KERCH NAVAL BASE + SHPYD SURFACE EFFECT SHIPS UR 451558N 0362504E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 13-B
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
SHIPS, SURFACE EFFECT SHIPS UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 75G COMIREX NO:

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

IN APRIL AND MAY 1976, A NEW PASSENGER SURFACE EFFECT SHIP (SES) WAS SEEN ON SATELLITE PHOTOGRAPHY ON THE QUAY AT KERCH SHIPYARD KAMYSH BURUN 532. THIS APPEARS TO BE THE VESSEL CALLED RASSVET, A MODEL OF WHICH APPEARED IN THE FEBRUARY 1977 ISSUE OF THE SOVIET SHIPBUILDING MAGAZINE SUDOSTROYENIYE. WE HAVE REVIEWED PHOTOGRAPHY OF BOTH KERCH AND THE SOSNOVKA BOATYARD, A KNOWN SES PRODUCING YARD, TO DETERMINE WHERE THE SHIP WAS CONSTRUCTED. WE CANNOT CONFIRM THAT THE NEW SES WAS PRODUCED AT EITHER YARD BUT BELIEVE IT WAS MOST LIKELY BUILT AT SOSNOVKA. THE SOSNOVKA BOATYARD HAS PRODUCED TWO CLASSES OF PASSENGER SESS, ZARNITSA AND ORION, WHICH ARE STRUCTURALLY SIMILAR TO THE NEW SES. THE NEW VESSEL IS VERY SIMILAR TO THE ORION AND IS PROBABLY A FOLLOW-ON DESIGN. THE ONLY SESS USUALLY ASSOCIATED WITH KERCH ARE MILITARY RESEARCH VESSELS, AND IT IS DOUBTFUL THE NEW VESSEL WAS BUILT AT KERCH. IT WAS PROBABLY THERE FOR SEA TRIALS.

CIA INFR MSD074-77 24 MAY 77 [] SEC CLASS: 13 MSN: [] 7P

ACCN: S080623 25X1

SHUANGCHENG TZU MTC ICBM SITE B CSS-X-4/CSL-2 CH 411828N 1001854E
WAC NO : 0287 BE/OBJ NO: [] NPIC NO : - 1-N
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []
SHUANGCHENG TZU MTC ICBM SITE B CSS-X-4/CSL-2 CH 411828N 1001854E
WAC NO : 0287 BE/OBJ NO: [] NPIC NO : - 1-N

25X1
25X1
25X1

1796
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X11

TWO CSS-X-4/CSL-2 LAUNCH VEHICLES THAT WERE SEEN ERECTED AT SHUANG-CHENG-TZU LAUNCH SITE B-2 WERE STUDIED IN AN EFFORT TO DETERMINE IF THIS LAUNCH VEHICLE CAN BE ROTATED AFTER IT IS PLACED ON THE LAUNCH STAND.

BY COMPARING EVENLY-SPACED, DARK STRIPES SEEN ON BOTH VEHICLES, IT WAS DETERMINED THAT THERE WAS AT LEAST A 24 DEGREE DIFFERENCE IN THE ROTATION OF THE TWO MISSILES WHEN THEY WERE ERECTED. THESE MISSILES WERE APPARENTLY EITHER ERECTED IN DIFFERENT POSITIONS, OR ONE, OR BOTH, OF THE MISSILES WAS ROTATED AFTER IT WAS ERECTED. NO EVIDENCE COULD BE FOUND THAT THE LAUNCH STAND OR THE LAUNCH PAD WAS DESIGNED TO ROTATE THE MISSILE. IT DOES APPEAR THAT A ROTATION OF ABOUT 35 DEGREES COULD BE ACHIEVED BY REALIGNING THE CENTER LAUNCH TABLE ON THE LAUNCHER BASE. THERE IS NO EVIDENCE THAT THE CENTER LAUNCH TABLE HAS EVER BEEN ROTATED.*

CIA INFR LFD175-77 20 MAY 77 [] SEC CLASS: 25 MSN: [] 6P ACCN: 5080624 25X1

ELECTRONICS, R-102M/R-140 HF RADIO VANS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

IT HAS BEEN DETERMINED THAT THERE ARE NO SIGNIFICANT EXTERNAL DIFFERENCES BETWEEN THE R-102M AND R-140 RADIO VANS USED BY SOVIET AND EAST EUROPEAN FORCES. THE MAJOR DIFFERENCES ARE INTERNAL AND TECHNICAL IN NATURE. A PROPOSAL TO ADOPT THE TERM R-102M/140 HF RADIO VAN FOR PHOTOGRAPHIC IDENTIFICATION OF BOTH SYSTEMS HAS BEEN MADE. THIS WOULD ACKNOWLEDGE THE EXISTENCE OF THE R-140 AND PREVENT ANY CONFUSION CONCERNING THE TWO SYSTEMS.*

CIA INFR MSD084-77 12 MAY 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: 5080625 25X1

KIROV MISSILE + A/C PLANT SA-3/SA-N-1/3 CANS UR 583834N 0493709E
WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 5-N1 25X1
IDHS CODE: [] EPF CAT : 40C COMIREX NO: [] 25X1
MISSILES, DEFENSIVE MISSILE PRODUCTION FACILS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40E COMIREX NO:
SARATOV AIRFRAME PLT 292 SA-2/SS-N-3/12 CANS UR 512948N 0455703E 25X1
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 14-A 25X1
IDHS CODE: [] EPF CAT : 40C COMIREX NO: [] 25X1
SARATOV AIRFRAME PLT 292 SA-2/SS-N-3/12 CANS UR 512948N 0455703E 25X1
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 14-A 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1
SARATOV AIRFRAME PLT 292 SA-2/SS-N-3/12 CANS UR 512948N 0455703E 25X1
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 14-A 25X1
IDHS CODE: [] EPF CAT : 40G COMIREX NO: [] 25X1
MOSKVA GUIDED MISSILE PROD PLANT 41 SA-2 CANS UR 554939N 0373023E

1797
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 46-L1
IDHS CODE: []	EPF CAT : 40C	COMIREX NO: []
KIROV MISSILE + A/C PLANT SA-3/SA-N-1/3 CANS	UR 583834N 0493709E	
WAC NO : 0155	BE/OBJ NO: []	NPIC NO : - 5-N1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
KIROV MISSILE + A/C PLANT SA-3/SA-N-1/3 CANS	UR 583834N 0493709E	
WAC NO : 0155	BE/OBJ NO: []	NPIC NO : - 5-N1
IDHS CODE: []	EPF CAT : 40G	COMIREX NO: []
SVERDLOVSK GUIDED MISSILE PROD PLT 8 SA-4 CAN	UR 565213N 0603707E	
WAC NO : 0156	BE/OBJ NO: []	NPIC NO : - 26-C
IDHS CODE: []	EPF CAT : 40C	COMIREX NO: []
MOSKVA GUIDED MISSILE + A/C PLT 464 SA-6 CANS	UR 555544N 0373027E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 58-J
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
MOSKVA GUIDED MISSILE + A/C PLT 464 SA-6 CANS	UR 555544N 0373027E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 58-J
IDHS CODE: []	EPF CAT : 40C	COMIREX NO: []

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

CIA INFR TSD102-77 11 MAY 77 [] SEC CLASS: 24 MSN: [] 4P ACCN: S080625X1

LENINGRAD SHIPYARD PETROVSKIY SS-N-7 MSL CRT	UR 595736N 0301512E
WAC NO : 0153	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40G
LENINGRAD SHIPYARD PETROVSKIY SS-N-7 MSL CRT	UR 595736N 0301512E
WAC NO : 0153	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75E

25X1
25X1

25X1
25X1

CIA INFR ERD091-77 04 MAY 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: S080625X1

TANGSHAN EARTHQUAKE REPAIR/RECONSTRUCTION ACT	CH 393708N 1181146E
WAC NO : 0381	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 10D
TIENCHING EARTHQUAKE REPAIR/RECONSTR ACTIVITY	CH 390730N 1171155E
WAC NO : 0381	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 10D

25X1
25X1

25X1
25X1

CIA INFR MSD071-77 22 APR 77 [] SEC CLASS: 24 MSN: [] 4P ACCN: S080625X1

CHINGYU MTC DOWNRANGE TRKG STA CHIFENG IDENT	CH 4217 N 12653 E
WAC NO : 0290	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 25C
CHIFENG HF COMMUNICATIONS FACIL/WEATHER STA	CH 422420N 1194040E
WAC NO : 0289	BE/OBJ NO: []

25X1

1798
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 10D COMIREX NO:
CHIH-FENG HF COMMUNICATIONS FACIL/WEATHER STA CH 422420N 1194040E
WAC NO : 0289 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1

THIS REPORT PROVIDES INFORMATION ON A HIGH FREQUENCY (HF) COMMUNICATIONS FACILITY AND ASSOCIATED WEATHER STATION LOCATED NEAR CHIH-FENG. IT IS BELIEVED THAT THE CHINESE ARE USING THIS FACILITY TO PASS DOWNRANGE WEATHER, AND POSSIBLY TRACKING DATA, TO CHING-YU MISSILE TEST CENTER.*

CIA INFR TSD091-77 22 APR 77 [] SEC CLASS: 25A MSN: [] 2P ACCN: 5080629 25X1

SHIPS, E-2 CLASS SSGN SS-N-3/12 MISSILE TUBES UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 75D COMIREX NO: []

25X1

THE SOVIETS CONSTRUCTED 29 E-II CLASS GUIDED MISSILE NUCLEAR POWERED SUBMARINES (SSGNS) BETWEEN 1962 AND 1967. EACH OF THESE SUBMARINES CARRIED EIGHT SS-N-3 CRUISE MISSILES IN FOUR PAIRS OF MISSILE LAUNCH TUBES MOUNTED ALONG THE DECK OUTSIDE THE PRESSURE HULL. EIGHT OF THESE SUBMARINES WERE LATER MODIFIED DURING OVERHAUL, AND OTHER SOURCES HAVE CONFIRMED THAT THE SS-N-3 SYSTEM WAS REPLACED BY THE NEWER, MORE ACCURATE SS-N-12 CRUISE MISSILE SYSTEM ON AT LEAST TWO OF THEM, ONE IN THE NORTHERN FLEET AND ONE IN THE PACIFIC FLEET. IN THIS STUDY WE HAVE MEASURED THE ANGLE OF ELEVATION OF THE MISSILE TUBES ON SS-N-3 AND AN SS-N-12 EQUIPPED SUBMARINES TO SEE IF THERE WAS A DIFFERENCE WHICH COULD BE USED TO DETECT A CHANGE IN MISSILE SYSTEMS. NO MEANINGFUL DIFFERENCE WAS FOUND IN THE ANGLE OF ELEVATION.

CIA INFR TSD082-77 21 APR 77 [] SEC CLASS: 24 MSN: [] 4P ACCN: 5080630 25X1

NENOKSA NAVAL MTC FACILITY A FRONT DOOR RADAR UR 643843N 0391118E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : 21
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

CIA INFR TSD078-77 07 APR 77 [] SEC CLASS: 13 MSN: [] 12P ACCN: 5080631 25X1

SHIPS, NAVAL SHIP PROD 7 SEPT - 9 DEC 76 CH
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 75 COMIREX NO: []

CIA INFR MSD067-77 02 MAY 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: 5080632 25X1

LENINGRAD PLANT U/I ROSSIYA UR 5954 N 03023 E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 30 COMIREX NO: []

25X1

THIS MEMORANDUM PRESENTS THE RESULTS OF A PHOTOGRAPHIC STUDY OF A PLANT IN LENINGRAD THAT WAS

1799
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDENTIFIED [] AS THE ROSSIYA PLANT OF THE ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR RADIO APPARATUS (VNIIRA). IT CONTAINS A CONSTRUCTION CHRONOLOGY FOR THOSE BUILDINGS CONSTRUCTED AT THE PLANT SINCE [] THE EARLIEST SATELLITE COVERAGE AVAILABLE, AND THE DIMENSIONS OF ALL THE BUILDINGS.

25X1
25X1

USING PHOTOGRAPHY ALONE, WE WERE UNABLE TO CONFIRM THE FUNCTIONS AND WORKFLOW PATTERNS OF MOST OF THE BUILDINGS, AND WE COULD NOT IDENTIFY THE PRODUCT OF THIS PLANT. MORE SPECIFICALLY, WE COULD NOT IDENTIFY ANY FIBERGLASS SHROUDS OR OTHER RADAR DOMES, NOR COULD WE IDENTIFY ANY SPECIFIC COMPONENTS OF THE PART TIME OR TALL KING RADARS. ALTHOUGH THE PLANT CONTAINED NUMEROUS TRUCKS AND TRAILER VANS, WE COULD NOT ASSOCIATE ANY OF THEM WITH ANY KNOWN ELECTRONIC SYSTEM.

CIA INFR MSD068-77 03 MAY 77 [] SEC CLASS: 13 MSN: [] 6P

ACCN: S08063-25X1

KIRZHACH SPACE TRACKING FACILITY UR 560312N 0383012E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 112-B
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

THIS REPORT PROVIDES AN UPDATED DESCRIPTION OF KIRZHACH SPACE TRACKING FACILITY SINCE JUNE 1975,

25X1

CIA INFR MSD069-77 04 MAY 77 [] SEC CLASS: 13 MSN: [] 7P

ACCN: S08063-25X1

KIYEV OHF TRANSMITTER SUPPORT FACILITIES UR 513810N 0304230E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 204
IDHS CODE: [] EPF CAT : 25A COMIREX NO: []

25X1
25X1

THIS REPORT ANSWERS SPECIFIC QUESTIONS CONCERNING CERTAIN SUPPORT FACILITIES SERVING THE KIEV OVER-THE-HORIZON DETECTION (OHD) RADAR TRANSMITTER. IT CONCENTRATES ON MENSURATION OF THE ASSOCIATED LOG-PERIODIC ANTENNAS, THE POWER SUPPLY FOR THE INSTALLATION, AND ON THE COOLING FACILITIES FOR THE RADAR TRANSMITTER.*

25X1

1800
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: AIRCRAFT, AIRFRAME PLANTS + RLTD FACs AIR O/B
WAC NO :
IDHS CODE:

EPF CAT : 05G
BE/OBJ NO:
EPF CAT : 05G

COMIREX NO:
UR
NPIC NO :
COMIREX NO:

CIA INFR TSD083-77 27 APR 77 [] SEC CLASS: 13 MSN: 11P

ACCN: S080637 25X1

LENINGRAD SHIPYARD ZHDANOV VYTEGRALES CL CONV
WAC NO : 0153
IDHS CODE: []

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

UR 595233N 0301406E
NPIC NO : - 36-K
COMIREX NO: []

25X1

SHIPS, VYTEGRALES CLASS S5ESS
WAC NO :
IDHS CODE:

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

UR
NPIC NO :
COMIREX NO:

25X1

IN MID-1974 ZHDANOV SHIPYARD 190 IN LENINGRAD BEGAN CONVERTING FOUR VYTEGRALES CLASS TIMBER CARRIERS TO PROBABLE EARTH SATELLITE VEHICLE (ESV) SUPPORT SHIPS. [] TWO OF THESE FORMER MERCHANT SHIPS WERE NEARING COMPLETION, ONE WAS IN THE LATE STAGE OF CONVERSION, AND ONE WAS IN THE EARLY STAGES OF CONVERSION. ESV SUPPORT SHIP IS A GENERAL FUNCTION WE HAVE ASSIGNED TO THESE SHIPS. BECAUSE THE FUNCTION OF THE LARGE ANTENNA THAT WILL BE CARRIED BY THESE SHIPS IS NOT KNOWN, WE HAVE NOT BEEN ABLE TO APPLY A MORE SPECIFIC FUNCTION SUCH AS SPACE EVENT SUPPORT, MISSILE RANGE INSTRUMENTATION, OR COMMUNICATIONS RELAY TO THESE SHIPS. THE SPACE PROGRAM THAT THESE SHIPS WILL PROBABLY SUPPORT IS UNKNOWN AT THIS TIME.

25X1

DIA NBRG NDA07-5254-77 29 JUN 77 [] SEC CLASS: 05B MSN: 1P

ACCN: S080638

CHIRCHIK ARMY BARRACKS AL10
WAC NO : 0328
IDHS CODE: []

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

UR 413314N 0693704E
NPIC NO : - 10-D3
COMIREX NO: []

25X1

25X1

DIA IIM 5B2-57031-77 JUN 77 [] SEC CLASS: 14 MSN: [] 11P

ACCN: S080635 25X1

NIKOLAYEVSK PORT FACILITIES
WAC NO : 0196
IDHS CODE: []

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

UR 530750N 1404242E
NPIC NO : - 6-62
COMIREX NO:

25X1

25X1

DIA IIM 5B2-52979-77 JUN 77 [] SEC CLASS: 14 MSN: [] 13P

ACCN: S080640 25X1

PETROPAVLOVSK PORT FACILITIES
WAC NO : 0194
IDHS CODE: []

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

UR 530039N 1583856E
NPIC NO : - 11-R1
COMIREX NO: []

25X1

25X1

DIA IIM 5B2-57021-77 JUN 77 [] SEC CLASS: 14 MSN: [] 15P

ACCN: S080641 25X1

TALLINN PORT COMPLEX

UR 592643N 0244629E

1801

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 76-06
IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1
25X1

DIA IIM 5B3-57135-77 27 JUN 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: 50806425X1

MAYMANAK AIRFIELD

WAC NO : 0337 BE/OBJ NO: [] UR 390819N 0650955E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 25
COMIREX NO:

25X1
25X1

DIA IIM 5B3-57138-77 27 JUN 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: 50806425X1

SUGRALY AIRFIELD

WAC NO : 0327 BE/OBJ NO: [] UR 413626N 0641352E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 4-A
COMIREX NO:

25X1
25X1

DIA IIM 5B3-57136-77 27 JUN 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: 50806425X1

CHARDARA AIRFIELD

WAC NO : 0328 BE/OBJ NO: [] UR 411600N 0675855E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 87-B
COMIREX NO:

25X1
25X1

DIA IIM 5B3-57137-77 27 JUN 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: 50806425X1

DYURBEL DZHIN AIRFIELD

WAC NO : 0328 BE/OBJ NO: [] UR 411600N 0745600E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 121
COMIREX NO:

25X1
25X1

25X1

1802
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA BIIR RCS13-0008-77 JUN 77 [redacted] SEC CLASS: 13 MSN: [redacted] 6P ACCN: S080649 25X1

PARDUBICE PETROLEUM REFINERY FANTO CZ 500152N 0154450E
WAC NO : 0231 BE/OBJ NO: [redacted] NPIC NO :
IDHS CODE: [redacted] EPF CAT : 30B COMIREX NO:

25X1
25X1

PARDUBICE PETROLEUM REFINERY FANTO IS AN OLD, SMALL REFINERY WHICH PROCESSES CRUDE OIL INTO STRAIGHT-RUN GASOLINE, KEROSENE, DIESEL AND FUEL OILS, ASPHALT, GASES, AND POSSIBLY LUBRICATING OIL. IT WAS SLIGHTLY MODIFIED DURING THE 1971-1975 FIVE-YEAR PLAN, POSSIBLY RESULTING IN A SMALL INCREASE IN ITS CRUDE OIL DISTILLATION CAPACITY.

THIS REPORT INCLUDES A BRIEF DISCUSSION OF THE PETROLEUM REFINERY AND A TABLE SUMMARIZING ITS PRODUCTION AREAS AND THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO THE PHOTOGRAPH OF THE REFINERY.

25X1

NPIC SR SR037-77 JUN 77 [redacted] SEC CLASS: 14B MSN: [redacted] 5P ACCN: S080651 25X1

KAPUSTIN YAR MTC SAM FIRING RANGE TOWER/RDRS UR 484828N 0454343E
WAC NO : 0235 BE/OBJ NO: [redacted] NPIC NO : - 10-A9
IDHS CODE: [redacted] EPF CAT : 25C COMIREX NO: [redacted]

25X1

25X1

THIS REPORT SUMMARIZES THE EMPLACEMENT OF FOUR NEW TOWERS AND THE IDENTIFICATION OF A NEW RADAR AT THE KAPUSTIN YAR (KY) SAM FIRING RANGE, USSR, [redacted]

25X1

NPIC SR SR038-77 JUN 77 [redacted] SEC CLASS: 25D MSN: [redacted] 3P ACCN: S080652 25X1

CHINGYU MTC ICBM SITE LAUNCH CAPABILITY CH 421712N 1265255E
WAC NO : 0290 BE/OBJ NO: [redacted] NPIC NO : - 201-B3
IDHS CODE: [redacted] EPF CAT : 40A COMIREX NO: [redacted]

25X1

25X1

1803

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

THIS REPORT SUMMARIZES THE RECENT ACTIVITY OBSERVED AT CHING-YU MISSILE TEST COMPLEX SSM, CHINA. THE CHING-YU ICBM TEST SITE IS THE RESEARCH AND DEVELOPMENT ELEVATE-TO-LAUNCH TEST SILO FOR THE CSS-3 ICBM. THE LAUNCHER ASSEMBLY HAS PROBABLY BEEN REFURBISHED AND THE CHECKOUT OF THE LAUNCHER APPEARS TO BE IN PROGRESS. THE DURATION OF THE CHECKOUT PROCESS CANNOT BE DETERMINED, BUT IT SHOULD BE COMPLETED IN TIME FOR A SUMMER/FALL LAUNCH SCHEDULE.

25X1

NPIC PIR PIR014-77 JUN 77 SEC CLASS: 14D MSN: 3P ACCN: S080655

MILITARY, RIVER CROSSING EQUIPMENT SIGHTINGS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT SUMMARIZES 67 SIGHTINGS OF RIVER CROSSING EQUIPMENT IN CHINA. IT IS BASED ON AN ANALYSIS OF KEYHOLE PHOTOGRAPHY OF CHINA. INCLUDED IN THIS REPORT ARE A LOCATION MAP AND A TABLE LISTING THE INSTALLATIONS (BY MILITARY REGION) CONTAINING RIVER CROSSING EQUIPMENT AND THE DATES OF THE LATEST OBSERVATIONS.

25X1

1804
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
2001

CIA BIIR RCS13-0007-77 JUN 77 SEC CLASS: 05C MSN: 8P ACCN: S080656

CRAIOVA CHEMICAL COMBINE ISALNITA RO 442302N 0234305E
WAC NO : 0251 BE/OBJ NO: NPIC NO : - 54
IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1
25X1
2001

THE CRAIOVA CHEMICAL COMBINE ISALNITA IS ONE OF ROMANIA'S LARGEST PRODUCERS OF CHEMICAL FERTILIZERS. THESE INCLUDE UREA, AMMONIUM NITRATE, NITROLIME, AND NITROGEN-PHOSPHATE-POTASSIUM (NPK) COMPOUND FERTILIZERS. THE COMBINE ALSO PRODUCES AMMONIA, NITRIC ACID, ACETYLENE, ACETALDEHYDE, PROBABLY BOTTLED OXYGEN, AND POSSIBLY ACETIC ACID, BUTANOL, METHANOL, AND NICOTINIC ACID.

CONSTRUCTION OF THE COMBINE REPORTEDLY BEGAN IN 1962, WITH ITS FIRST FACILITIES BEGINNING PRODUCTION IN 1965. FROM 1967 TO 1969, THE COMBINE WAS EXPANDED TO INCLUDE ADDITIONAL AMMONIUM NITRATE AND UREA FACILITIES. DURING THE 1971-75 FIVE-YEAR PLAN, A THIRD NITRIC ACID PLANT, A THIRD AMMONIA PLANT, AND AN NPK COMPOUND FERTILIZER PLANT WERE ADDED TO THE COMBINE.

THIS REPORT INCLUDES A BRIEF DISCUSSION OF THE CRAIOVA CHEMICAL COMBINE. A TABLE SUMMARIZING THE COMBINE'S PRODUCTION AREAS AND PROVIDING VOLUMES OF THE MAJOR PRODUCTION BUILDINGS IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

NPIC SR SR035-77 JUN 77 SEC CLASS: 14B MSN: 4P ACCN: S080657

25X1

MISSILES, SS-9 TRAINING SITES CONST/CONV ACT UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

CONVERSION CONSTRUCTION AT THE TRAINING SILOS AT FIVE OF THE SIX SS-9/SS-18 ICBM COMPLEXES HAS BEEN SUSPENDED. THESE TRAINING SILOS ARE AT THE ALEYSK, DOMBAROVSKIY, IMENI GASTELLO, UZHUR, AND ZHANGIZ-TOBE ICBM COMPLEXES. ENVIRONMENTAL NETTING HAD BEEN PLACED OVER THREE OF THESE TRAINING SILOS. AT THE KARTALY ICBM COMPLEX TRAINING SILO, CONVERSION CONSTRUCTION WAS PROGRESSING AT A SLOW PACE.

25X1

1805
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

CIA REPT IS10013K-77 JUN 77 SEC CLASS: 13 MSN: 40P ACCN: 5080660 25X1

TULA COAL GASIFICATION SITE U/G ABANDONED	UR 5412 N 03738 E	
WAC NO : 0167	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:
LISICHANSK COAL GASIFICATION SITE U/G ABND	UR 4855 N 03826 E	25X1
WAC NO : 0234	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:
KAMENSK SHAKHTINSKIY COAL GASIFICATION ABND	UR 4819 N 04015 E	25X1
WAC NO : 0234	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:
ANGREN COAL GASIFICATION SITE U/G	UR 410042N 0700948E	25X1
WAC NO : 0328	BE/OBJ NO: []	NPIC NO : - 45-B
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []
KISELEVSK COAL GASIFICATION SITE U/G	UR 535602N 0863850E	25X1
WAC NO : 0161	BE/OBJ NO: []	NPIC NO : - 73
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []
SHATSKAYA COAL GASIFICATION SITE U/G	UR 540953N 0375135E	25X1
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 213
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []

AN ANALYSIS OF SOVIET EFFORTS IN UNDERGROUND GASIFICATION OF COAL (UGC), WHICH INCLUDED A SEARCH OF 24 LOCATIONS REPORTED TO BE UGC SITES, INDICATES THAT THIS TECHNOLOGY, TO THE EXTENT THAT IT IS CURRENTLY APPLIED IN THE SOVIET UNION, PROVIDES A SOURCE OF ENERGY WHICH IS INSIGNIFICANT WHEN COMPARED WITH OTHER SOURCES SUCH AS PETROLEUM OR NATURAL GAS.*

1806
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA	IIM	5B3-57164-77	29 JUN 77	[]	SEC CLASS: 13	MSN: []	2P	ACCN: S080662	25X1
		PETROVSK AIRFIELD SOUTH				UR 521624N 0452310E			
		WAC NO : 0166		BE/OBJ NO: []		NPIC NO : - 18-C			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO: []			25X1
DIA	IIM	5B3-57162-77	29 JUN 77	[]	SEC CLASS: 13	MSN: []	2P	ACCN: S080663	25X1
		TSELINOGRAD AIRFIELD SOUTH				UR 510110N 0712850E			
		WAC NO : 0238		BE/OBJ NO: []		NPIC NO : - 1-B			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO:			25X1
DIA	IIM	5B3-57149-77	29 JUN 77	[]	SEC CLASS: 13	MSN: []	2P	ACCN: S080664	25X1
		MUSTVEE AIRFIELD SEARCH				UR 584630N 0265530E			
		WAC NO : 0153		BE/OBJ NO: []		NPIC NO :			25X1
		IDHS CODE: []		EPF CAT : 05A		COMIREX NO:			25X1
DIA	IIM	5B3-57148-77	29 JUN 77	[]	SEC CLASS: 13	MSN: []	4P	ACCN: S080665	25X1
		AIRFIELDS, REVENMENTS BADGER		TU-16 ASSOC		UR			
		WAC NO :		BE/OBJ NO:		NPIC NO :			
		IDHS CODE:		EPF CAT : 05A		COMIREX NO:			
DIA	IIM	5B3-57165-77	29 JUN 77	[]	SEC CLASS: 13	MSN: []	2P	ACCN: S080666	25X1
		PAKHTAKOR AIRFIELD				UR 401500N 0675430E			

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1807
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0328
IDHS CODE: []

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

NPIC NO : - 105-B
COMIREX NO:

25X1
25X1

DIA IIM 5B2-57079-77 29 JUN 77 [] SEC CLASS: 14 MSN: [] 6P ACCN: S080667

25X1

LOKSA PORT FACILITIES

WAC NO : 0153
IDHS CODE: []

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

UR 593506N 0254224E
NPIC NO : - 76-R1
COMIREX NO: []

25X1
25X1

DIA IIM 5B2-57069-77 29 JUN 77 [] SEC CLASS: 14 MSN: [] 13P ACCN: S080668

25X1

LOMONOSOV PORT FACILITIES

WAC NO : 0153
IDHS CODE: []

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

UR 595537N 0294632E
NPIC NO : - 40-C1
COMIREX NO: []

25X1
25X1

DIA IIM 5B2-57078-77 29 JUN 77 [] SEC CLASS: 14 MSN: [] 7P ACCN: S080669

25X1

PORONAYSK PORT FACILITIES

WAC NO : 0205
IDHS CODE: []

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

UR 493141N 1430706E
NPIC NO :
COMIREX NO:

25X1
25X1

25X1

1808
TOP SECRET CHESS RUFF

25X1

Page Denied

Next 5 Page(s) In Document Denied

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC BIIB BCA03-0002-77 JUN 77 [] SEC CLASS: 25 MSN: [] 2P ACCN: S080702

25X1

CHITA SRF ARMY HQ RADCOM XMTR NO SIG CHANGE UR 520324N 1131137E
 WAC NO : 0199 BE/OBJ NO: [] NPIC NO : - 2-U1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

OMSK SRF ARMY HQ RADCOM XMTR HARD NO SIG CHNG UR 545613N 0740739E
 WAC NO : 0163 BE/OBJ NO: [] NPIC NO : - 44
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

VLADIMIR SRF ARMY RADIO XMTR BKR NO SIG CHNG UR 561351N 0400551E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 156
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

SMOLENSK SRF ARMY HQ RADCOM XMTR NO SIG CHNG UR 544110N 0315100E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 77-F1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

VINNITSA SRF ARMY HQ RDO XMTR BKR NO SIG CHNG UR 493030N 0280010E
 WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 64-0
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

ORENBURG SRF ARMY HQ RDO XMTR BKR NO SIG CHNG UR 520152N 0551818E
 WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 140
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

DIA IIM 5B2-52894-77 JUL 77 [] SEC CLASS: 14 MSN: [] 6P ACCN: S080703

25X1

MAGADAN PORT FACILITIES NAGAYEVO UR 593343N 1504315E
 WAC NO : 0131 BE/OBJ NO: [] NPIC NO : - 1-H
 IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1

25X1

25X1

DIA IIM 5B2-57030-77 01 JUL 77 [] SEC CLASS: 14 MSN: [] 4P ACCN: S080704

25X1

LAZAREV PORT FACILITIES UR 521412N 1413050E
 WAC NO : 0196 BE/OBJ NO: [] NPIC NO : - 11-B
 IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1

25X1

DIA IIM 5B2-57050-77 JUL 77 [] SEC CLASS: 14 MSN: [] 14P ACCN: S080705

25X1

UST KAMCHATSK PORT FACILITIES UR 561257N 1623045E
 WAC NO : 0132 BE/OBJ NO: [] NPIC NO : - 18-A1
 IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1

25X1

25X1

1815
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIR 5B3-57173-77 01 JUL 77 [redacted] SEC CLASS: 14 MSN: 4P

ACCN: S080707 25X1

AIRCRAFT, FOXBAT MIG-25 WING MODIF SEARCH UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05 COMIREX NO:

25X1

NPIC IIR IIR050-77 05 JUL 77 [redacted] SEC CLASS: 14B MSN: 2P

ACCN: S080708 25X1

ODESSA SA-3 SITE A20 SA-9 TELS UR 462001N 0304114E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 51-02
IDHS CODE: EPF CAT : 40C COMIREX NO:

25X1

25X1

NPIC IIR IIR051-77 06 JUL 77 [redacted] SEC CLASS: 14B MSN: 3P

ACCN: S080709 25X1

AKHTUBINSK FLIGHT TEST CTR FOXBAT MODIF DMNS UR 481735N 0461216E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 1A
IDHS CODE: EPF CAT : 05G COMIREX NO:
AIRCRAFT, FOXBAT MIG-25 MODIFIED DIMENSIONS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5192-77 11 JUL 77 SEC CLASS: 05G MSN: 1P

ACCN: S080710

HUAIAN ARMY BARRACKS AL1 + HQ INFANTRY DIV CH 404006N 1142456E
WAC NO : 0288 BE/OBJ NO: NPIC NO : - 1-A2
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5193-77 11 JUL 77 SEC CLASS: 05G MSN: 1P

ACCN: S080711

PEISHACHENG ARMY BARRACKS AL1 CH 404324N 1143147E
WAC NO : 0288 BE/OBJ NO: NPIC NO : - 1-E2
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1

25X1

DIA NBRG NDA07-5194-77 11 JUL 77 SEC CLASS: 05G MSN: 1P

ACCN: S080712

25X1

1816
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

	HSIMALIN ARMY BARRACKS AL2	CH 404850N 1142750E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 1-E3	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5195-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080713
	HUAIAN ARMY BARRACKS WEST AL3	CH 404008N 1142141E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 1-A1	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5196-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080714
	CHANGCHIAKOU MILITARY AREA 2	CH 4051 N 11457 E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :	25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:	25X1
DIA	NBRG NDA07-5197-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080715
	CHANGCHIAKOU ARMY BARRACKS AL4 + HQ INF DIV	CH 404514N 1144339E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 2-C	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5198-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080716
	CHANGCHIAKOU ARMY BARRACKS AL7	CH 405329N 1145429E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 2-J6	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5199-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080717
	WANCHUAN ARMY BARRACKS AL1	CH 405125N 1144418E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 90	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	25X1
DIA	NBRG NDA07-5200-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080718
	SHANFANGPAO ARMY BARRACKS AL1	CH 405740N 1144324E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	25X1
DIA	NBRG NDA07-5201-77 11 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080719
	CHANGCHIAKOU ARMY BARRACKS WEST AL8	CH 404630N 1144310E		

1817

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0288 BE/OBJ NO: [] NPIC NO : - 2-C1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5202-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080720

CHANGCHIAKOU ARMY BARRACKS AL2 CH 404605N 1145413E
WAC NO : 0288 BE/OBJ NO: [] NPIC NO : - 2-I
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5203-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080721

CHANGCHIAKOU COMBINED ARMS TRAINING AREA CH 404620N 1144742E
WAC NO : 0288 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35B COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5181-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080722

CHANGCHIAKOU MILITARY AREA 1 CH 4050 N 11456 E
WAC NO : 0288 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35 COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5182-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080723

CHANGCHIAKOU ARMY BARRACKS AL1 + HQ CH 404851N 1145340E
WAC NO : 0288 BE/OBJ NO: [] NPIC NO : - 2-J
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5183-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080724

HSUANHUA MILITARY AREA 1 CH 4038 N 11506 E
WAC NO : 0289 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35 COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5184-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080725

HSUANHUA ARMY BARRACKS AL1 + HQ INFANTRY DIV CH 403613N 1150155E
WAC NO : 0289 BE/OBJ NO: [] NPIC NO : - 13-R
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5185-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080726

HSUANHUA ARMY BARRACKS NW AL10 CH 403818N 1150030E
WAC NO : 0289 BE/OBJ NO: [] NPIC NO : - 13-D5

25X1

1818
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []						25X1
DIA NBRG	NDA07-5186-77	11 JUL 77	SEC CLASS: 05G	MSN:		1P		ACCN: S080727	
	SHACHENG ARMY BARRACKS NW AL1		CH	402416N	1152935E				
	WAC NO : 0289	BE/OBJ NO: []	NPIC NO :	-	41				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []						25X1
DIA NBRG	NDA07-5187-77	11 JUL 77	SEC CLASS: 05G	MSN:		1P		ACCN: S080728	
	CHANGCHIAKOU ARMY BARRACKS SOUTH AL9		CH	404350N	1145445E				
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :	-	2-H3				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []						25X1
DIA NBRG	NDA07-5188-77	11 JUL 77	SEC CLASS: 05G	MSN:		1P		ACCN: S080729	
	SHACHENG ARMY BARRACKS AL3		CH	402430N	1152910E				
	WAC NO : 0289	BE/OBJ NO: []	NPIC NO :						25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO:						25X1
DIA NBRG	NDA07-5189-77	11 JUL 77	SEC CLASS: 05G	MSN:		1P		ACCN: S080730	
	HSINPAOAN ARMY BARRACKS AL1		CH	402640N	1152500E				
	WAC NO : 0289	BE/OBJ NO: []	NPIC NO :	-	38-A2				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []						25X1
DIA NBRG	NDA07-5190-77	11 JUL 77	SEC CLASS: 05G	MSN:		1P		ACCN: S080731	
	HSUANHUA ARMORED TRAINING AREA		CH	404550N	1150640E				
	WAC NO : 0289	BE/OBJ NO: []	NPIC NO :	-	13-1				25X1
	IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []						25X1
DIA NBRG	NDA07-5191-77	11 JUL 77	SEC CLASS: 05G	MSN:		1P		ACCN: S080732	
	HUAIAN MILITARY AREA 1		CH	4040 N	11423 E				
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :						25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:						25X1
NPIC SR	SR040-77	JUL 77	SEC CLASS: 14B	MSN:		4P		ACCN: S080733	25X1
	LENINGRAD SHIPYARD ZHDANOV COMBATANT NEW U/C		UR	595233N	0301406E				
	WAC NO : 0153	BE/OBJ NO: []	NPIC NO :	-	36-K				25X1
	IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []						25X1

1819
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

INCREASING PHOTOGRAPHIC EVIDENCE INDICATES THAT A NEW CLASS OF SHIP, PROBABLY A SURFACE COMBATANT, IS BEING CONSTRUCTED AT LENINGRAD SHIPYARD ZHDANOV 190, USSR. AT LEAST FOUR SUBASSEMBLIES, WHICH CANNOT BE READILY ASSOCIATED WITH EXISTING CONSTRUCTION PROGRAMS, HAVE BEEN SEEN AT THE SHIPYARD.

NPIC BIIR RCA03-0004-77 JUL 77 [] SEC CLASS: 25B MSN: [] 4P ACCN: S08073525X1

ELECTRONICS, ANTENNAS HARD PHASE 2 ICBM CPLXS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

THIS REPORT DESCRIBES THE CONTINUED DEPLOYMENT OF PHASE II HARDENED ANTENNAS AT SOVIET ICBM COMPLEXES ASSOCIATED WITH THE SS-17, -18, AND -19 MISSILE SYSTEMS. DEPLOYMENT OF THESE HARDENED ANTENNAS BEGAN IN OCTOBER 1973 AT DOMBAROVSKIY, AS OF MID-MAY 1977, 434 PHASE II HARDENED ANTENNAS HAVE BEEN IDENTIFIED AT 12 ICBM COMPLEXES. THIS REPORT UPDATES NPIC REPORT [] AND INCLUDES A LOCATION MAP AND A TABLE OF ALL IDENTIFIED PHASE II HARDENED ANTENNAS AT ICBM COMPLEXES.

25X1

NPIC BIIR RCA19-0001-77 JUL 77 [] SEC CLASS: 25B MSN: [] 9P ACCN: S08073625X1

ASHULUK SAM FIRING RANGE UR 472620N 0480230E
WAC NO : 0248 BE/OBJ NO: [] NPIC NO : - 17
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1
25X1

SIGNIFICANT OBSERVATIONS [] AT ASHULUK SAM FIRING RANGE INCLUDE CONSTRUCTION OF A TRIPLE, ARCH-ROOFED COMMAND AND CONTROL BUNKER, TWO NEW AIR WARNING SITES, AND A FIELD-DEPLOYED TALL KING. AN SA-5 TRAINING EXERCISE AND TWO SA-6 TRAINING EXERCISES WERE ALSO OBSERVED. A SERIES OF SIX REMOTE SAM SITES NORTH OF THE SAM FIRING LINE ARE NOW CONSIDERED TO BE ASSOCIATED WITH ASHULUK SAM FIRING RANGE.

25X1

25X1

NPIC PIR PIR013-77 JUN 77 [] SEC CLASS: 14 MSN: [] 10P ACCN: S08073725X1

ELECTRONICS, EW RADAR DEVELOPMENTS PL
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25A COMIREX NO:

THIS REPORT DISCUSSES THE TWO KNOWN POLISH RADAR EQUIPMENT PRODUCTION PLANTS, THE FACILITY WHERE THE EQUIPMENT IS TESTED, THE TYPES OF POLISH EARLY WARNING (EW) RADAR EQUIPMENT, AND THE HARDENING OF EW AND GROUND CONTROL INTERCEPT RADAR SITES. THIS REPORT IS CURRENT THROUGH THE INFORMATION CUTOFF DATE OF 15 APRIL 1977.

NPIC SR SR041-77 JUL 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S08073525X1.1

1820
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Redacted]

SUROVATIKHA MISSILE SUPT FAC WHD CAN TRF OPS UR 554300N 0435210E
WAC NO : 0166 BE/OBJ NO: NPIC NO : 50-C
IDHS CODE: EPF CAT : 55D COMIREX NO:

25X1
25X1
25X1
25X1

[Large Redacted Area]

DIA NBRG NDA06-5071-77 11 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080742

1821
TOP SECRET CHESS RUFF

[Redacted]

25X1



TOP SECRET CHESS RUFF



25X1

TAHSIEH SUBMARINE BASE PUG

WAC NO : 0492

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : 75A

CH 295357N 1215719E

NPIC NO : - 44-B

COMIREX NO: [REDACTED]

DIA IIM 5B1-57027-77 05 JUL 77 [REDACTED]

SEC CLASS: 14D MSN: [REDACTED]

27P

ACCN: S080743 25X1

BORZYA ARMY BARRACKS AL3/HQ MRD/SA-4 BRIGADE

WAC NO : 0202

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : 35A

UR 502105N 1162720E

NPIC NO : - 3-B1

COMIREX NO: [REDACTED]

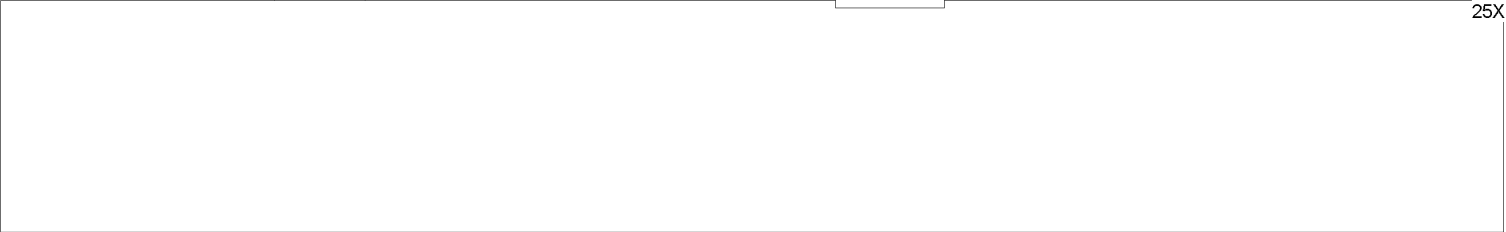
25X1

25X1

25X1

25X1

25X1



DIA IIM 5B3-57178-77 08 JUL 77 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED]

5P

ACCN: S080746 25X1

AIRCRAFT: FLAGON F SU-15

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05D

UR

NPIC NO :

COMIREX NO:

DIA IIM 5B3-57182-77 08 JUL 77 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED]

1P

ACCN: S080747 25X1

KHABAROVSK/NEKRASOVKA AIRFIELD

WAC NO : 0204

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : 05A

UR 482339N 1351339E

NPIC NO : - 7-A

COMIREX NO: [REDACTED]

25X1

25X1

DIA IIM 5B3-57196-77 08 JUL 77 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED]

2P

ACCN: S080748 25X1

DZHAKPEK AIRFIELD

WAC NO : 0245

IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]

EPF CAT : U5A

UR 470903N 0691000E

NPIC NO : - 63-A

COMIREX NO:

25X1

25X1

DIA IIM 5B2-57197-77 08 JUL 77 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED]

1P

ACCN: S080749 25X1

25X1

1822

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUF

25X1
25X1

SURGUT RAILROAD BRIDGE YURGANSKAYA OB RIVER UR 611322N 0730940E
WAC NO : 0099 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 85B COMIREX NO:

25X1
25X1

DIA IIM 581-57199-77 08 JUL 77 [] SEC CLASS: 14B MSN: [] 1P

ACCN: S080750

25X1

BUDAPEST POLICE BARRACKS + ACADY P SENDOR 020 HU 473118N 0185946E
WAC NO : 0251 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 10A COMIREX NO:

25X1
25X1

DIA IIM 582-52995-77 JUL 77 [] SEC CLASS: 14B MSN: [] 6P

ACCN: S080751

25X1
25X1

LENINGRAD SHIPPING TERMINAL LESNOY UR 595252N 0301220E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 36-K3
IDHS CODE: [] EPF CAT : 75I COMIREX NO:

25X1
25X1

DIA IIM 582-57032-77 JUL 77 [] SEC CLASS: 14B MSN: [] 5P

ACCN: S080752

25X1

MAGO PORT FACILITIES MARITIME UR 531512N 1401127E
WAC NO : 0196 BE/OBJ NO: [] NPIC NO : - 1-A
IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1

25X1
25X1

1823

TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC MEMO

11 JUL 77

SEC CLASS: 14B MSN:

2P

ACCN: S080767

25X1

1825
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NIZHNEVARTOVSK TV CENTER

WAC NO : 0099

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25B

UR 605550N 0763405E

NPIC NO : - 5-A1

COMIREX NO:

25X1

25X1

NPIC MEMO

[]

12 JUL 77

[]

SEC CLASS: 14B MSN: []

2P

ACCN: S080768

25X1

KANEV RADIO RELAY STATION

WAC NO : 0233

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25D

UR 494427N 0312639E

NPIC NO : - 195-A

COMIREX NO: []

25X1

25X1

CHERKASSY TV RELAY + FM BROADCASTING STATION

WAC NO : 0233

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25B

UR 492740N 0320210E

NPIC NO : - 9-D1

COMIREX NO: []

25X1

25X1

KANEV GOALPOST ANTENNA IDENT

WAC NO : 0233

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 25

UR 494247N 0312912E

NPIC NO :

COMIREX NO:

25X1

25X1

DIA NBRG

NDA06-5069-77 11 JUL 77

SEC CLASS: 05 MSN:

1P

ACCN: S080769

LA HABANA PORT FACILITIES

WAC NO : 0586

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75I

CU 230750N 0822050W

NPIC NO : []

COMIREX NO: []

25X1

25X1

DIA NBRG

NDA06-5070-77 11 JUL 77

SEC CLASS: 05 MSN:

1P

ACCN: S080770

CIENFUEGOS PORT FACILITIES

WAC NO : 0586

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75I

CU 220825N 0802720W

NPIC NO : - 51-A

COMIREX NO: []

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25X1

25X1

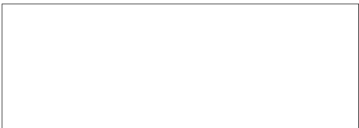
1826

TOP SECRET CHESS RUFF

25X1

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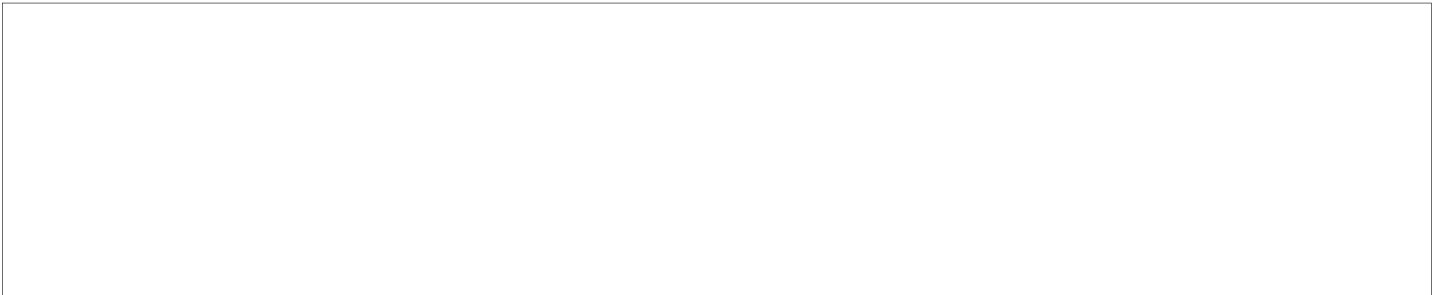
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TOP SECRET CHESS RUFF



25X1
25X1



25X1

AF BIIR RFB22-0008-77 APR 77 SEC CLASS: 14B MSN: 16P ACCN: S080824 25X1

AIRCRAFT: BACKFIRE B
WAC NO :
IDHS CODE:

UR
BE/OBJ NO: NPIC NO :
EPF CAT : 05D COMIREX NO:

25X1

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-22/0007/75 BACKFIRE B, OCTOBER 1974.

25X1
25X1



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1844
TOP SECRET CHESS RUFF



25X1

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TOP SECRET CHESS RUFF



25X1
25X1

25X1

()

DIA	IIM	5B2-57077-77	11 JUL 77	<input type="text"/>	SEC CLASS: 14	MSN: <input type="text"/>	8P	ACCN: S080831	25X1
		UGLEGORSK PORT FACILITIES				UR 490441N 1420207E			()
		WAC NO : 0205		BE/OBJ NO: <input type="text"/>		NPIC NO : - 5-A			25X1
		IDHS CODE: <input type="text"/>		EPF CAT : 75I		COMIREX NO: <input type="text"/>			25X1
DIA	IIM	5B2-57099-77	14 JUL 77	<input type="text"/>	SEC CLASS: 14	MSN: <input type="text"/>	9P	ACCN: S080832	25X1
		USTKA PORT FACILITIES				PL 543506N 0165118E			25X1
		WAC NO : 0169		BE/OBJ NO: <input type="text"/>		NPIC NO : - 157			25X1
		IDHS CODE: <input type="text"/>		EPF CAT : 75I		COMIREX NO:			25X1
DIA	IIM	5B1-57163-77	28 JUN 77	<input type="text"/>	SEC CLASS: 14B	MSN: <input type="text"/>	4P	ACCN: S080833	25X1

1846
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

	LUKOV ARMY BARRACKS MATSEYEV AL1	UR	511400N 0242100E	
	WAC NO : 0232	BE/OBJ NO:	NPIC NO : - 75-A1	25X1
	IDHS CODE:	EPF CAT : 35A	COMIREX NO:	25X1
DIA	IIM 5B1-57175-77 28 JUN 77		SEC CLASS: 14B MSN:	2P ACCN: S080834 25X1
	KALUGA AMMUNITION DEPOT EAST	UR	543101N 0361918E	
	WAC NO : 0167	BE/OBJ NO:	NPIC NO : - 22-A4	25X1
	IDHS CODE:	EPF CAT : 35F	COMIREX NO:	25X1
DIA	IIM 5B1-57174-77 15 JUL 77		SEC CLASS: 14B MSN:	1P ACCN: S080835 25X1
	RYBNIK ENGINEER STORAGE FACILITY 501 SEARCH	PL	500627N 0183254E	
	WAC NO : 0232	BE/OBJ NO:	NPIC NO :	25X1
	IDHS CODE:	EPF CAT : 35F	COMIREX NO:	25X1
DIA	IIM 5B1-57176-77 29 JUN 77		SEC CLASS: 14B MSN:	1P ACCN: S080836 25X1
	MEREFA ARMY BARRACKS AL1	UR	494720N 0355910E	
	WAC NO : 0234	BE/OBJ NO:	NPIC NO : - 83	25X1
	IDHS CODE:	EPF CAT : 35A	COMIREX NO:	25X1
DIA	IIM 5B1-57183-77 15 JUL 77		SEC CLASS: 14B MSN:	1P ACCN: S080837 25X1
	STAROGARD MILITARY INSTALLATION U/I SEARCH	PL	513242N 0151258E	
	WAC NO : 0231	BE/OBJ NO:	NPIC NO :	25X1
	IDHS CODE:	EPF CAT : 35A	COMIREX NO:	25X1
DIA	IIM 5B1-57195-77 15 JUL 77		SEC CLASS: 14B MSN:	1P ACCN: S080838 25X1
	SWINOUJSCIE QUARTERMASTER RPR/STGE DEPOT SRCH	PL	535328N 0141711E	
	WAC NO : 0169	BE/OBJ NO:	NPIC NO : - 150-B9	25X1
	IDHS CODE:	EPF CAT : 35F	COMIREX NO:	25X1
DIA	IIM 5B1-57205-77 08 JUL 77		SEC CLASS: 14B MSN:	3P ACCN: S080839 25X1
	KIRZHACH AMMUNITION DEPOT DA1	UR	560550N 0384500E	
	WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 112	25X1
	IDHS CODE:	EPF CAT : 35F	COMIREX NO:	25X1
	KIRZHACH TACTICAL SSM SUPPORT FACILITY	UR	560610N 0384455E	
	WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 112-C	25X1
	IDHS CODE:	EPF CAT : 40	COMIREX NO:	25X1

1847

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA	IIM	5B1-57208-77	15 JUL 77	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	1P	ACCN: S080841	25X1 25X1
		WARSZAWA MILITARY STORAGE FAC 528 U/I SEARCH			PL	521058N 0210407E			
		WAC NO : 0168		BE/OBJ NO: [REDACTED]	NPIC NO :				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 35F	COMIREX NO:				25X1
DIA	IIM	5B1-57209-77	15 JUL 77	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	1P	ACCN: S080842	25X1 25X1
		WARSZAWA MILITARY STGE FACIL GENERAL 536 SRCH			PL	521203N 0210325E			
		WAC NO : 0168		BE/OBJ NO: [REDACTED]	NPIC NO :				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 35F	COMIREX NO:				25X1
DIA	IIM	5B1-57210-77	08 JUL 77	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	1P	ACCN: S080843	25X1
		TAVTIMANOVO GROUND FORCE INSTL NEW SEARCH			UR	545320N 0562830E			
		WAC NO : 0165		BE/OBJ NO: [REDACTED]	NPIC NO :				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 35A	COMIREX NO:				25X1
DIA	IIM	5B1-57211-77	11 JUL 77	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	1P	ACCN: S080844	25X1
		ZIRGAN GROUND FORCE INSTALLATION NEW SEARCH			UR	5314 N 05554 E			
		WAC NO : 0165		BE/OBJ NO: [REDACTED]	NPIC NO :				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 35A	COMIREX NO:				25X1
DIA	IIM	5B1-57212-77	11 JUL 77	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	1P	ACCN: S080845	25X1
		FEDOROVKA GROUND FORCE INSTALLATION SEARCH			UR	531030N 0551110E			
		WAC NO : 0165		BE/OBJ NO: [REDACTED]	NPIC NO :				25X1
		IDHS CODE: [REDACTED]		EPF CAT : 35A	COMIREX NO:				25X1

1848
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B1-57214-77 13 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080846

VARAZDIN ARMY BARRACKS EAST YO 461834N 0162053E

WAC NO : 0252 BE/OBJ NO: [] NPIC NO : []

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

25X1

25X1
25X1

25X1

DIA IIM 5B1-57217-77 15 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080848

WARSZAWA ENGINEER STORAGE FACILITY 507 SEARCH PL 514622N 0203302E

WAC NO : 0232 BE/OBJ NO: [] NPIC NO : []

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

25X1

25X1
25X1

DIA IIM 5B1-57219-77 15 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080849

WARSZAWA MILITARY STORAGE FACIL PRUZSKOW 501 PL 520949N 0204640E

WAC NO : 0169 BE/OBJ NO: [] NPIC NO : []

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

25X1

25X1
25X1

DIA IIM 5B1-57221-77 11 JUL 77 [] SEC CLASS: 14B MSN: [] 8P ACCN: S080850

MOSKVA ORDNANCE DEPOT SKHODNYA UR 555649N 0372051E

WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 92-A1

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

25X1

25X1
25X1

DIA IIM 5B1-57223-77 15 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080851

STRYKOW MILITARY BARRACKS 1 SEARCH PL 515359N 0193735E

WAC NO : 0232 BE/OBJ NO: [] NPIC NO : []

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

25X1

25X1
25X1

DIA IIM 5B1-57225-77 12 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080852

CHISHMY GROUND FORCE INSTALLATION NEW SEARCH UR 543530N 0552400E

WAC NO : 0165 BE/OBJ NO: [] NPIC NO : []

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

25X1

25X1

DIA IIM 5B1-57226-77 15 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080853

25X1

25X1

1849
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



25X1
25X1

ZIELONA GORA ENGINEER STORAGE FAC 501 SEARCH PL 515656N 0153007E
 WAC NO : 0231 BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 35F COMIREX NO:
 NPIC MEMO [] 18 JUL 77 [] SEC CLASS: 14D MSN: [] 1P ACCN: S080854 25X1

KIRENSK RADIO RELAY STATION UR 574200N 1080430E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: 25X1

THE KIRENSK RADIO-RELAY STATION, IDENTIFIED APPROXIMATELY FIVE NAUTICAL MILES SSW OF KIRENSK, IS PROBABLY THE PREVIOUSLY UNIDENTIFIED STATION ON THE YAKUTSK-BRATSK DRUZHBA LINE.*

NPIC MEMO [] 19 JUL 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S080855 25X1

MOSKVA ELECTRONICS TEST AREA UR 554403N 0372240E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 58-B1
 IDHS CODE: [] EPF CAT : 25E COMIREX NO: 25X1

THE AREA AROUND KUNTSEVO, USSR, WAS REVIEWED TO LOCATE A SUSPECTED KGB COMMUNICATIONS RESEARCH LABORATORY. THIS NEW FACILITY, MOSCOW ELECTRONICS TEST AREA, APPEARS TO BE USED FOR TESTING, CALIBRATING AND PROBABLY MINOR REPAIR OF ELECTRONICS EQUIPMENT.*



25X1

NPIC MEMO [] 25 JUL 77 [] SEC CLASS: 14D MSN: [] 3P ACCN: S080857 25X1

TAYSHET RADIO RELAY + TV BROADCAST CENTER UR 555218N 0980920E
 WAC NO : 0160 BE/OBJ NO: [] NPIC NO : - 3-A1
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: 25X1

TAYSHET RADIO RELAY + TV BROADCAST CENTER UR 555218N 0980920E
 WAC NO : 0160 BE/OBJ NO: [] NPIC NO : - 3-A1
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: 25X1

BRATSK TV CENTER UR 560925N 1013510E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 1-02
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: [] 25X1

SHESTAKOVO RADIO RELAY STATION UR 562355N 1033720E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 28 25X1

1850
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 KHREBTOVAYA RADIO RELAY STATION UR 564225N 1042645E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 31
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 KAVNONIKHA RADIO RELAY STATION UR 565110N 1045735E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 32
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 UST KUT RADIO RELAY + TV BDCST CTR NORTH PROB UR 564750N 1054000E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 5-B1
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: []
 UST KUT RADIO RELAY + TV BDCST CTR NORTH PROB UR 564750N 1054000E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 5-B1
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 MAYEIKA RADIO RELAY STATION UR 565927N 1061703E
 WAC NO : 0127 BE/OBJ NO: [] NPIC NO : - 38
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

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

[] WAS REVIEWED TO DETERMINE THE STATUS OF STATIONS ALONG THE TAYSHET-BRATSK-KIRENSK RADIO-RELAY LINE. ALSO, THE AREA BETWEEN TAYSHET AND BRATSK WAS SEARCHED FOR NEW RADIO-RELAY STATIONS BUT NO NEW STATIONS COULD BE IDENTIFIED.*

NPIC MEMO [] 26 JUL 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S080858

25X1
25X1

SHAKHUNYA RADIO RELAY + TV BROADCAST STATION UR 573940N 0463920E
 WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 42-B
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 SHAKHUNYA RADIO RELAY + TV BROADCAST STATION UR 573940N 0463920E
 WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 42-B
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: []

25X1
25X1
25X1
25X1
25X1

[] WAS REVIEWED TO UPDATE THE SHAKHUNYA RADIO-RELAY STATION AND TO LOCATE ANY RADIO-RELAY STATIONS NORTHEAST OF SHAKHUNYA.**

NPIC MEMO [] 27 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080859

25X1

PINYUG RADIO RELAY STATION SEARCH UR 6015 N 04748 E
 WAC NO : 0101 BE/OBJ NO: [] NPIC NO : []
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

CIA INFR TSD107-77 25 MAY 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: S080860

25X1

RAMENSKOYE FLIGHT TEST CENTER INSTRUMENTATION UR 553418N 0380923E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 50

25X1

1851
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

IDHS CODE: EPF CAT : 25H COMIREX NO:

25X1

PHOTOGRAPHY OF RAMENSKOYE FLIGHT TEST CENTER SINCE LATE 1969 WAS REVIEWED AND THREE CATEGORIES OF INSTRUMENTATION WHICH MIGHT BE USED TO SUPPORT THE TESTING OF AIRCRAFT OR MISSILE SUBSYSTEMS WERE IDENTIFIED. THESE CATEGORIES ARE VAN-MOUNTED PARABOLIC DISHES (PROBABLY SHIPWHEEL RADARS), TALL INSTRUMENTATION TOWERS WITH CIGAR-TYPE ANTENNAS, AND HIGH-CONTRAST RESOLUTION TARGETS. ALSO, TWO ADDITIONAL AREAS ARE BEING DEVELOPED WHICH MAY AUGMENT SUBSYSTEM TESTING CAPABILITIES. THE CENTRAL TEST AREA AND A PROBABLE NEW ELECTRONICS FACILITY ARE UNDER CONSTRUCTION AT THE TEST CENTER.*

DIA NBRG NDA06-5074-77 25 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080861

YULIN NAVAL FACILITIES APPROACHES

WAC NO : 0618 BE/OBJ NO: CH 1813 N 10933 E
IDHS CODE: EPF CAT : 75 COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5075-77 25 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080862

YULIN SUBMARINE BASE

WAC NO : 0618 BE/OBJ NO: CH 181332N 1093244E
IDHS CODE: EPF CAT : 75A NPIC NO : - 9-13
COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5076-77 25 JUL 77 SEC CLASS: 05G MSN: 1P ACCN: S080863

YULIN NAVAL BASE + SHIPYARD

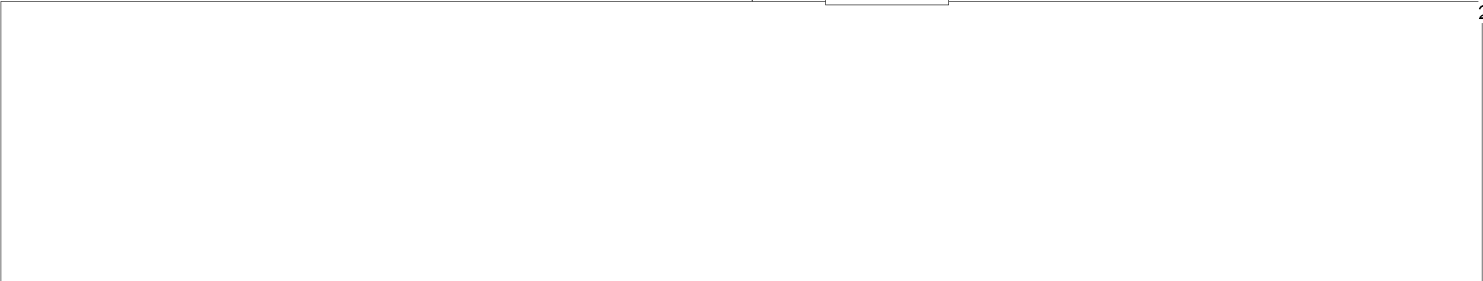
WAC NO : 0618 BE/OBJ NO: CH 181312N 1093200E
IDHS CODE: EPF CAT : 75B NPIC NO : - 9-E
COMIREX NO:

25X1
25X1

YULIN NAVAL BASE + SHIPYARD

WAC NO : 0618 BE/OBJ NO: CH 181312N 1093200E
IDHS CODE: EPF CAT : 75E NPIC NO : - 9-E
COMIREX NO:

25X1
25X1



25X1

1852
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-57300-77 28 JUL 77 [] SEC CLASS: 14B MSN: [] 5P ACCN: S080866 25X1

WROCLAW MILITARY STORES AREA BRESLAU PL 510716N 0170028E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1
25X1

25X1

DIA IIM 5B1-57317-77 JUL 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S080868 25X1

WROCLAW ORDNANCE STORAGE FACILITY 563 PL 510416N 0165755E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

DIA IIM 5B1-57321-77 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080869 25X1

VARPOLOTA AMMUNITION STORAGE FACILITY HU 471310N 0180800E
WAC NO : 0252 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

DIA IIM 5B1-57323-77 28 JUL 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S080870 25X1

KISKUNHALAS AMMUNITION STORAGE DEPOT SE 508 HU 462456N 0193016E
WAC NO : 0251 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1

25X1

DIA IIM 5B3-57329-77 28 JUL 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080871 25X1

MISSILES, AA-8 CRATES FLAGON ASSOC POS5 UR
WAC NO : BE/OBJ NO: [] NPIC NO :
IDHS CODE: EPF CAT : 40J COMIREX NO:

25X1

1853
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

DIA IIM 5B1-57338-77 28 JUL 77 [Redacted] SEC CLASS: 14D MSN: [Redacted] 2P

ACCN: S080872 25X1

IRKUTSK GROUND FORCE INSTALLATION NEW SEARCH UR 5217 N 10418 E
WAC NO : 0200 BE/OBJ NO: NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 35A COMIREX NO:

25X1

DIA IIM 5B1-57278-77 27 JUL 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 1P

ACCN: S080873 25X1

KOSTELEK NAD ORLICI MILITARY TRNG AREA 403 CZ 500624N 0161129E
WAC NO : 0232 BE/OBJ NO: [Redacted] NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 35B COMIREX NO:

25X1

25X1

25X1

[Redacted]

DIA IIM 5B2-57229-77 JUL 77 [Redacted] SEC CLASS: 14 MSN: [Redacted] 6P

ACCN: S080875 25X1

SZEGED PORT COMPLEX HU 461514N 0200918E
WAC NO : 0251 BE/OBJ NO: [Redacted] NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 75I COMIREX NO:

25X1

25X1

25X1

[Redacted]

NPIC SR SR045-77 JUL 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 3P

ACCN: S080877 25X1

1854
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

KALININGRAD SHIPYARD STATE PETYA CL FFL MODIF UR 544131N 0202612E
 WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 57-D
 IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
 SHIPS, PETYA CLASS FFL MODIFICATIONS UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO :
 IDHS CODE: [] EPF CAT : 75D COMIREX NO:

25X1
25X1
25X1

MODIFICATIONS WERE MADE ON TWO PETYA-CLASS LIGHT FRIGATES (FFL), A PETYA I AND A PETYA II, WHICH WERE AT THE KALININGRAD SHIPYARD STATE 820, USSR. MODIFICATIONS INVOLVED THE ADDITION OF UNIQUE DECK HOUSES WHICH WILL PROBABLY HOUSE ANTISUBMARINE WARFARE (ASW) SENSORS. THE SPECIFIC TYPE OF SENSOR FOR THESE UNITS HAS NOT YET BEEN DETERMINED.*

NPIC MEMO [] 29 JUL 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S080878 25X1

KHODZHEYLI RADIO RELAY + TV RELAY STATION UR 422359N 0592300E
 WAC NO : 0327 BE/OBJ NO: [] NPIC NO : - 12-A
 IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
 KHODZHEYLI RADIO RELAY + TV RELAY STATION UR 422359N 0592300E
 WAC NO : 0327 BE/OBJ NO: [] NPIC NO : - 12-A
 IDHS CODE: [] EPF CAT : 25B COMIREX NO: []

25X1
25X1
25X1
25X1

DIA BIIR RDA11-0005-77 JUL 77 [] SEC CLASS: 14D MSN: [] 6P ACCN: S080879 25X1

HSIANGTAN ARMORED VEHICLE REPAIR PLANT 627 CH 275220N 1125340E
 WAC NO : 0497 BE/OBJ NO: [] NPIC NO : - 10-F
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: []

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF HSIANG-TAN ARMORED VEHICLE REPAIR PLANT 627, PEOPLE'S REPUBLIC OF CHINA (PRC). THE PLANT PROBABLY MANUFACTURES GENERAL PURPOSE INDUSTRIAL EQUIPMENT AND HAS THE CAPABILITY TO PRODUCE AND REPAIR ARMORED COMBAT VEHICLES. IT CONTAINS A 2,600-METER ELLIPTICAL VEHICLE TEST TRACK AND A SMALL-TEST FIRING RANGE, AND HAS A TOTAL OF 151,196 SQUARE METERS OF ROOF COVER. THE INFORMATION IS PRESENTED IN GRAPHIC, TEXTUAL, AND TABULAR FORM. IT INCLUDES A MAP, THREE ANNOTATED PHOTOGRAPHS, AND TWO TABLES. BUILDINGS/STRUCTURES SUCH AS LATRINES, ENVIRONMENTAL COVERS, UTILITY BUILDINGS, AND CONSTRUCTION SUPPORT BUILDINGS HAVE BEEN OMITTED FROM THE GRAPHICS AND TABLES. A REFERENCE DATA LIST FURNISHES IMAGERY, MAP, AND DOCUMENTARY SOURCES. FIGURE 2 IS A NATIONAL BASIC REFERENCE GRAPHIC (NBRG).

DIA BIIR RDA05-0014-77 JUL 77 [] SEC CLASS: 14B MSN: [] 9P ACCN: S080880 25X1

KALININGRAD/KHRABROVO AIRFIELD UR 545320N 0203517E
 WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 57-B
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
 KALININGRAD/KHRABROVO AIRFIELD GCA SITE UR 545323N 0203517E

25X1
25X1

1855
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0169 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 25H COMIREX NO:

25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF KALININGRAD/KHRABROVO AIRFIELD AND RELATED FACILITY DURING THE PERIOD AUGUST 1971 TO FEBRUARY 1976. THE AIRFIELD IS IN EUROPEAN U.S.S.R. AND SERVES AS A BOMBER AIRCRAFT AND CIVIL AVIATION BASE. SIGNIFICANT CHANGES DURING THE REPORTING PERIOD INCLUDED THE CONSTRUCTION OF A PROBABLE CIVIL PARKING APRON AND TAXIWAY AND THE EXTENSION AND RESURFACING OF THE RUNWAY. FEATURES DESCRIBED IN THE REPORT INCLUDE A CONCRETE RUNWAY 2,500M X 59M, TAXIWAYS AND PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED TOTAL CAPACITY OF 5,905, 240 LITERS, AIRCRAFT MAINTENANCE, ADMINISTRATION, ACCOMMODATIONS, TRANSPORTATION, UTILITIES, DEFENSES, AND SECURITY. AOB ON KH 1211-4 (23 FEB 76) INCLUDED 14 BEAGLE, 4 CAT/CUB, 8 COKE/CURL, 2 CRATE, 5 CAB, AND 8 COLT.

CIA BIIR RCS13-0005-77 JUL 77 SEC CLASS: 05C MSN: 8P ACCN: 5080881

NOVGOROD CHEMICAL COMBINE
WAC NO : 0153 BE/OBJ NO: [] UR 583652N 0311322E
IDHS CODE: [] EPF CAT : 30F NPIC NO : 46-C
COMIREX NO: []

25X1
25X1

NOVGOROD CHEMICAL COMBINE PRODUCES FERTILIZERS, ACIDS, AND FEEDSTOCKS, POSSIBLY FOR RESINS PRODUCTION. ITS MAIN PRODUCTS INCLUDE AMMONIA, SULFURIC ACID, ACETYLENE, UREA FERTILIZER, AND POSSIBLY ACETIC ACID, METHANOL, FORMALDEHYDE, AND DRY ICE. WHEN A CURRENT EXPANSION PROGRAM IS COMPLETE, THE COMBINE WILL ALSO PRODUCE NITRIC ACID AND AMMONIUM NITRATE AND NITROGEN-PHOSPHORUS-POTASSIUM (NPK) FERTILIZERS. IT WILL POSSIBLY PRODUCE AMMONIATED PHOSPHATE FERTILIZER AND UREA AND MELAMINE RESINS.

CONSTRUCTION OF THE COMBINE BEGAN IN 1963 AND HAS CONTINUED EVER SINCE. A PORTION OF THE PLANT WAS FIRST OBSERVED OPERATING IN 1969. DURING THE 1971-75 FIVE YEAR PLAN, A SULFURIC ACID PLANT AND AN AMMONIA PLANT WERE BUILT AND CONSTRUCTION BEGAN ON A NITRIC ACID PLANT AND ON AMMONIUM NITRATE, NPK, AND POSSIBLY AMMONIATED PHOSPHATE FERTILIZER PLANTS. THESE PLANTS WILL PROBABLY BE COMPLETED IN 1977.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE THAT SUMMARIZES ITS PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

25X1

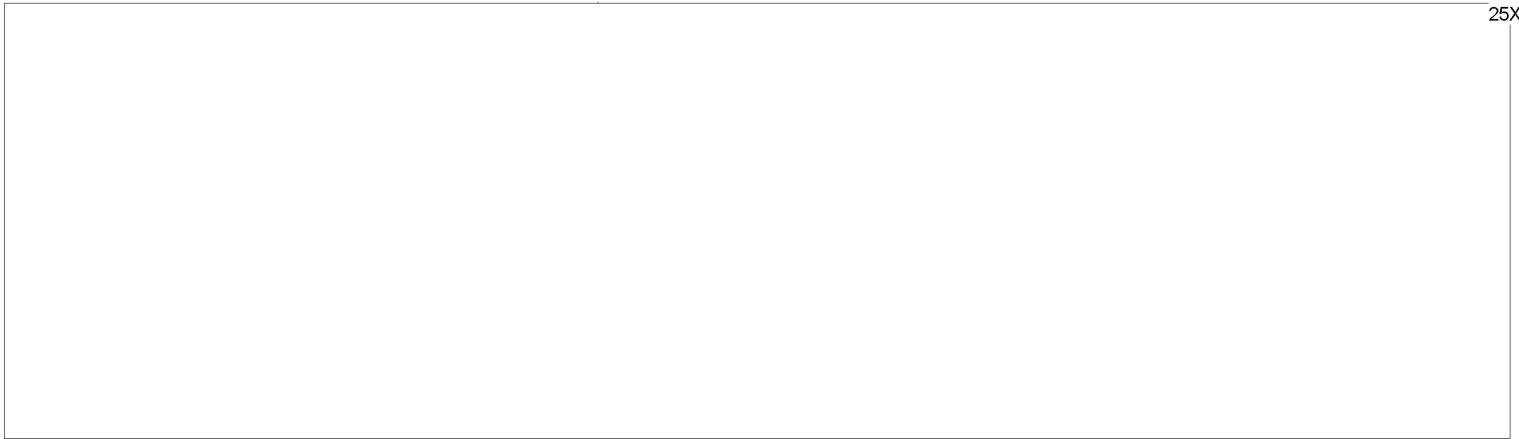
1856
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF ZARF UMBRA/NOFORN

TCS-9749/77

25X1



25X1

NPIC SR SR025-77 MAY 77 [redacted] SEC CLASS: 14D MSN: 4P ACCN: S080885 25X1

MISSILES, CRUISE MISSILE COASTAL DEFENSE FAC UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40K COMIREX NO:
MISSILES, NAVAL CRUISE MISSILE CD FACILITIES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40G COMIREX NO:

AN ANALYSIS OF SOVIET NAVAL CRUISE MISSILE ANTISHIPPING COASTAL DEFENSE FACILITIES MADE [redacted] REVEALS THE DEPLOYMENT OF A BALANCED FORCE THAT SEEMS TO PLACE
CONSIDERABLE RELIANCE UPON A PREDOMINANTLY MOBILE CONCEPT AND ONE THAT IS AUGMENTED BY A SELECTED NUMBER
OF HARDENED CRUISE MISSILE LAUNCH SITES.

25X1
25X1

CIA NOTE ISSN0005J-77 JUN 77 [redacted] SEC CLASS: 25 MSN: 17P ACCN: S080886 25X1

MISSILES, SSM EXERCISES CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1

1857
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

SHUANGCHENGZU MILITARY DEFENSE STRENGTHENED CH 4055 N 10018 E
 WAC NO : 0287 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:
 MILITARY, AAA UNITS UPGRADING CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35D COMIREX NO:
 INDUSTRY, PETROCHEMICAL PLANTS U/C UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1

MISSILES, SAM UNITS MOBILE SINO-SOVIET BDR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40C COMIREX NO:

25X1

NAMSI AIRFIELD HOUND MI-4 ASSAULT FORCE KN 395530N 1251230E
 WAC NO : 0380 BE/OBJ NO: NPIC NO : - 6
 IDHS CODE: EPF CAT : 05A COMIREX NO:
 MILITARY, SOVIET MILITARY EQUIP DELIVERIES IZ
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1
25X1

25X1

NPIC MODL JUL 77 SEC CLASS: 14B MSN: 6P

ACCN: S080887

25X1

MISSILES, SS-11/17 LAUNCH SILO UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

1858
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25A1

25X1

NPIC MEMO [] 27 JUL 77 [] SEC CLASS: 14B MSN: 3P ACCN: S080889

25X1

SEVERODVINSK SHIPYARD YAGRY OSTROV NAVAL O/B UR 643514N 0394907E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 7-K
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
SEVERODVINSK SHIPYARD 402 NAVAL O/B UR 643438N 0394832E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 7-A
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []

25X1

25X1

25X1

25X1

NPIC MEMO [] 27 JUL 77 [] SEC CLASS: 14 MSN: 11P ACCN: S080890

25X1

ELECTRONICS, TRAP DOOR RADAR KIEV CL CVSG MTD UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 25I COMIREX NO:
NENOKSA NAVAL MTC FACIL A FRONT DOOR RDR PROB UR 643843N 0391118E
WAC NO : 0092 BE/OBJ NO: [] NPIC NO : - 21
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1

25X1

25X1

THIS REPORT PROVIDES PHOTOS OF THE TRAP DOOR RADAR MOUNTED ON THE KIEV CLASS CVSG AND THE PROBABLE FRONT DOOR RADAR LOCATED AT NENOKSA NAVAL MISSILE TEST CENTER, LAUNCH FACILITY A.*

NPIC SR SR050-77 JUL 77 [] SEC CLASS: 14B MSN: 4P ACCN: S080891

25X1

PRUZHANY ARMY BARRACKS RPV/DRONE NEW POSS UR 523600N 0242345E
WAC NO : 0168 BE/OBJ NO: [] NPIC NO : - 61-B1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []
MARCIANA MISSILE SUPPORT FACIL RPV/DRONE POSS UR 564650N 0260500E
WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 108
IDHS CODE: [] EPF CAT : 40 COMIREX NO: []
AIRCRAFT, RPV/DRONE RECONNAISSANCE SYS NEW UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 05D COMIREX NO:

25X1

25X1

25X1

25X1

25X1

THE SOVIETS MAY HAVE DEPLOYED A POSSIBLE NEW, UNIDENTIFIED REMOTE-PILOTED VEHICLE (RPV)/DRONE RECONNAISSANCE SYSTEM AT TWO INSTALLATIONS IN THE WESTERN USSR. [] PRUZHANY ARMY BARRACKS IN THE BELORUSSIAN MILITARY DISTRICT AND MARCIENA MISSILE SUPPORT FACILITY IN THE LENINGRAD

25X1

25X1

1859
TOP SECRET CHESS RUFF

[REDACTED] TOP SECRET CHESS RUFF [REDACTED]

25X1

MILITARY DISTRICT, RESPECTIVELY, HAS REVEALED EQUIPMENT SIMILAR TO THAT ASSOCIATED WITH A SUSPECT RPV/DRONE DEVELOPMENT PROGRAM AT KAPUSTIN YAR (KY) CRUISE TEST COMPLEX D. THE SYSTEM COMPONENTS CONSIST OF TRANSPORTER/LAUNCHERS, TRANSPORTER/RESUPPLY VEHICLES, CHECKOUT/CONTROL VEHICLES, AND DISTINCTIVELY CONFIGURED SHIPPING CRATES.

25X1

1860
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

MILITARY, T-72 MEDIUM TANK + VARIANTS UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:
 MILITARY, T-64/67 MEDIUM TANK UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:
 MILITARY, M-1970 MEDIUM TANK UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 35E COMIREX NO:

25X1

25X1

25X1

THIS BASIC IMAGERY INTERPRETATION REPORT, WHICH PROVIDES A DETAILED DESCRIPTION OF THE SOVIET MEDIUM TANK T-72, ALSO IS INTENDED TO UPDATE USAIIC REPORT, BAC 24-5010/73, 'M-1970 MEDIUM TANK' AND INTELLIGENCE BRIEFING NOTE 6-77, 'T-72 TANK.'

THE REPORT CONTAINS 31 ANNOTATED PHOTOGRAPHS, FUNCTIONAL AND PHYSICAL DESCRIPTIONS OF THE T-72 TANK AND THE VARIANTS, A TABLE OF CHARACTERISTICS, AN UNCLASSIFIED APPENDIX WITH SEVEN ADDITIONAL PHOTOGRAPHS, AND A REFERENCE SECTION. THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 15 MAY 1977.

NPIC SR SR047-77 JUL 77 [] SEC CLASS: 14B MSN: 3P ACCN: S080896

25X1

CHERNOMORSKOYE MISSILE TEST + EVAL CONST U/I UR 450116N 0355748E
 WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 11
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

THE CHERNOMORSKOYE MISSILE TEST AND EVALUATION FACILITY HAS RECENTLY UNDERGONE CONSIDERABLE CONSTRUCTION ACTIVITY WITHIN THE LAUNCH AREA. THE FIRST INDICATIONS OF UPGRADING WERE EXCAVATIONS AND BUILDING CONSTRUCTION SEEN [] NO MISSILE-RELATED ACTIVITY HAS BEEN SEEN AT THE LAUNCH AREA SINCE LATE 1971, BUT OVERALL UPGRADING OF THE LAUNCH AREA SUGGESTS THAT THE FACILITY WILL PROBABLY BE PARTICIPATING IN A NEW MISSILE TEST PROGRAM.*

25X1

25X1

1861
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC MEMO [redacted] 29 JUL 77 [redacted] SEC CLASS: 13 MSN: [redacted] 2P ACCN: S080898 25X1

STOLIN BOMBING RANGE
WAC NO : 0233 BE/OBJ NO: [redacted] UR 515230N 0271950E
IDHS CODE: [redacted] EPF CAT : 05 NPIC NO : - 177
COMIREX NO: [redacted]

25X1
25X1

THIS MEMORANDUM PROVIDES AN UPDATED DESCRIPTION OF THE STOLIN BOMBING RANGE FROM PHOTOGRAPHY [redacted]

25X1
25X1

DIA IIM 5B3-57330-77 02 AUG 77 [redacted] SEC CLASS: 13 MSN: [redacted] 2P ACCN: S080899 25X1

NABEREZHNYE CHELNY MOTOR VEH PLT CIV DEF ACT UR 554130N 0522730E
WAC NO : 0165 BE/OBJ NO: [redacted] NPIC NO : - 35-D
IDHS CODE: [redacted] EPF CAT : 10A COMIREX NO: [redacted]
NABEREZHNYE CHELNY MOTOR VEH PLT CIV DEF ACT UR 554130N 0522730E
WAC NO : 0165 BE/OBJ NO: [redacted] NPIC NO : - 35-D
IDHS CODE: [redacted] EPF CAT : 85A COMIREX NO: [redacted]

25X1
25X1

25X1
25X1

25X1

DIA IIM 5B2-57291-77 AUG 77 [redacted] SEC CLASS: 14 MSN: [redacted] 11P ACCN: S080901 25X1

PROVIDENIYA PORT FACILITIES UR 642543N 1731407W
WAC NO : 0075 BE/OBJ NO: [redacted] NPIC NO : - 17-A
IDHS CODE: [redacted] EPF CAT : 75I COMIREX NO: [redacted]

25X1
25X1

25X1

1862
TOP SECRET CHESS RUFF

25X1

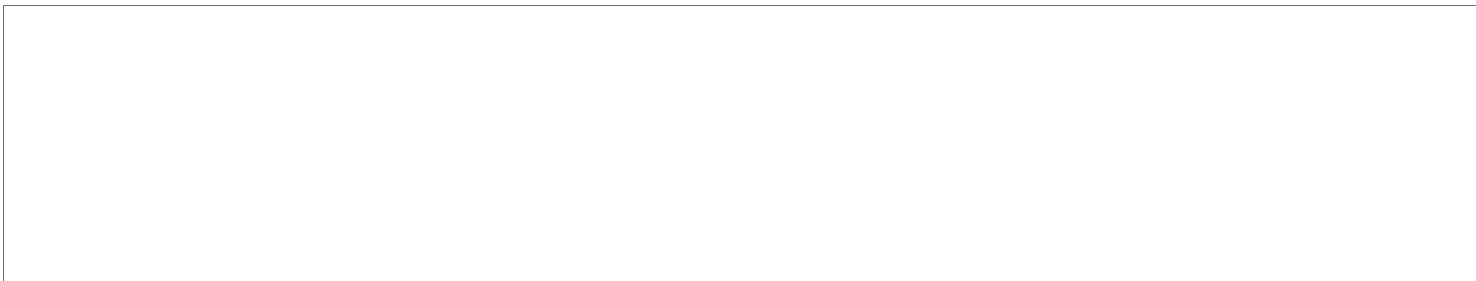
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TOP SECRET CHESS RUFF

25X1
25X1



25X1

DIA IIM 582-57356-77 AUG 77 [redacted] SEC CLASS: 14 MSN: [redacted] 7P ACCN: S080940

25X1
25X1

SUKHUMI PORT FACILITIES

WAC NO : 0324

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]
EPF CAT : 75I

UR 425955N 0410118E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA IIM 582-57314-77 AUG 77 [redacted] SEC CLASS: 14 MSN: [redacted] 7P ACCN: S080942

25X1

RIGA PORT FACILITIES SOUTH

WAC NO : 0153

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]
EPF CAT : 75I

UR 565821N 0240541E
NPIC NO :
COMIREX NO:

25X1
25X1

NPIC MIPIR CA0042-77 29 JUL 77 [redacted] SEC CLASS: 14 MSN: [redacted] 175P ACCN: S080943

25X1

MIPIR 038/042

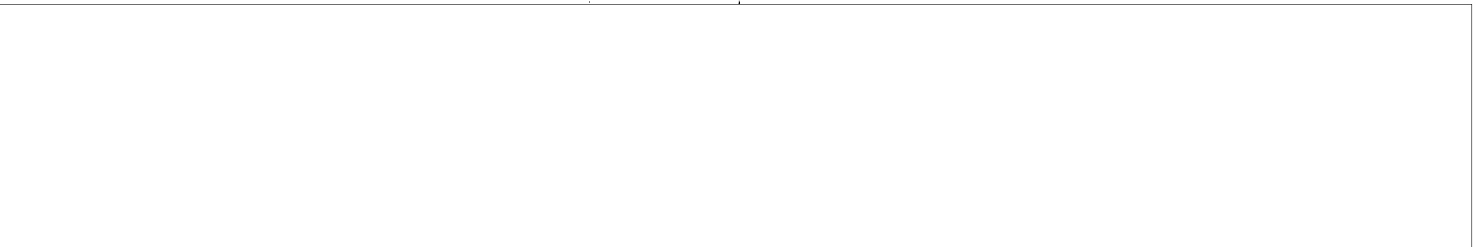
WAC NO :

IDHS CODE:

BE/OBJ NO:
EPF CAT : 15A

NPIC NO :
COMIREX NO:

25X1



1869
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-57361-77 05 AUG 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S080946 25X1

CHOYR AIRFIELD WAC NO : 0285 BE/OBJ NO: [] MG 461500N 1082346E NPIC NO : [] IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

DIA IIM 5B3-57362-77 05 AUG 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S080947 25X1

CHOYR AIRFIELD EAST WAC NO : 0285 BE/OBJ NO: [] MG 461549N 1082622E NPIC NO : [] IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

DIA IIM 5B1-57286-77 18 AUG 77 [] SEC CLASS: 14B MSN: [] 16P ACCN: S080949 25X1

URYUPINSK ARMY BARRACKS AL1 WAC NO : 0234 BE/OBJ NO: [] UR 504740N 0415955E NPIC NO : - 50-A1 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] URYUPINSK ARMY BARRACKS AL2 WAC NO : 0234 BE/OBJ NO: [] UR 504720N 0415955E NPIC NO : - 50-A3 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] URYUPINSK MILITARY TRAINING AREA SOUTH WAC NO : 0234 BE/OBJ NO: [] UR 504700N 0420100E NPIC NO : - 50-A4 IDHS CODE: [] EPF CAT : 35B COMIREX NO: [] URYUPINSK MILITARY TRAINING AREA SSW 2 WAC NO : 0234 BE/OBJ NO: [] UR 504500N 0415600E NPIC NO : - 50-A6 IDHS CODE: [] EPF CAT : 35B COMIREX NO: [] URYUPINSK ARMY BARRACKS AL3 WAC NO : 0234 BE/OBJ NO: [] UR 5047 N 04159 E NPIC NO : [] IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1

25X1

25X1

25X1

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25X1

25X1

25X1

25X1

25X1

1870 TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC	MIPIR	CA0047-77	05 AUG 77		SEC CLASS: 14	MSN:	140P	ACCN: S080975	25X1
	MIPIR	043/047							
	WAC NO :			BE/OBJ NO:		NPIC NO :			
	IDHS CODE:			EPF CAT : 15A		COMIREX NO:			
DIA	NBRG	NDA07-5255-77	29 JUL 77		SEC CLASS: 05G	MSN:	1P	ACCN: S080976	
	TATUNG MILITARY AREA 1					CH 4005 N 11318 E			
	WAC NO : 0288			BE/OBJ NO:		NPIC NO :			25X1
	IDHS CODE:			EPF CAT : 35		COMIREX NO:			25X1
DIA	NBRG	NDA07-5256-77	29 JUL 77		SEC CLASS: 05G	MSN:	1P	ACCN: S080977	
	TATUNG ARMY BARRACKS NW AL1/HEADQUARTERS					CH 400703N 1131621E			
	WAC NO : 0288			BE/OBJ NO:		NPIC NO : - 16-G1			25X1
	IDHS CODE:			EPF CAT : 35A		COMIREX NO:			25X1
DIA	NBRG	NDA07-5257-77	29 JUL 77		SEC CLASS: 05G	MSN:	1P	ACCN: S080978	
	TATUNG ARMY BARRACKS AL11					CH 401330N 1130815E			
	WAC NO : 0288			BE/OBJ NO:		NPIC NO : - 16-B			25X1
	IDHS CODE:			EPF CAT : 35A		COMIREX NO:			25X1
DIA	NBRG	NDA07-5258-77	29 JUL 77		SEC CLASS: 05G	MSN:	1P	ACCN: S080979	

1875

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	TATUNG ARMY BARRACKS SW PINGWANG	CH 400323N 1131144E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-D1	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5259-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080980
	TATUNG MILITARY TRAINING AREA	CH 400840N 1132225E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-H	25X1
	IDHS CODE: []	EPF CAT : 35B	COMIREX NO: []	25X1
DIA	NBRG NDA07-5260-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080981
	CHINING MILITARY AREA 1	CH 4057 N 11302 E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :	25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:	25X1
DIA	NBRG NDA07-5261-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080982
	CHINING ARMY BARRACKS AL6/HQ	CH 405931N 1130357E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 3-D1	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5262-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080983
	CHINING ARMY BARRACKS 5	CH 405900N 1130705E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 3-J1	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5263-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080984
	CHULOPAO MILITARY AREA 1	CH 4009 N 11336 E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :	25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:	25X1
DIA	NBRG NDA07-5264-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080985
	CHULOPAO ARMY BARRACKS AL4 + HQ INFANTRY DIV	CH 401014N 1132836E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-F	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5265-77 29 JUL 77	SEC CLASS: 05G MSN:	1P	ACCN: S080986
	CHINING ARMY BARRACKS AL4 + DEFENSIVE AREA	CH 405130N 1133200E		

1876
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

7

	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 69				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5266-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080987
	YANGKAO ARMY BARRACKS WNW AL1			CH	402157N 1134340E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 26				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5267-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080988
	CHINING ARMY BARRACKS SOUTH ALIENKOU AL1			CH	404703N 1131222E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 3-K				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5268-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080989
	TATUNG MILITARY AREA 2			CH	4006 N 11319 E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO :				25X1
	IDHS CODE: []	EPF CAT : 35	COMIREX NO:				25X1
DIA	NBRG	NDA07-5269-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080990
	TATUNG ARMY BARRACKS NW AL2/HQ INFANTRY DIV			CH	400645N 1131526E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-G				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5270-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080991
	TATUNG ARMY BARRACKS AL14			CH	400330N 1125755E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-V				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5271-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080992
	TATUNG ARMY BARRACKS AL10			CH	400811N 1131722E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-H5				25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []				25X1
DIA	NBRG	NDA07-5272-77	29 JUL 77	SEC CLASS: 056	MSN:	1P	ACCN: S080993
	TATUNG MILITARY TRAINING AREA 2			CH	400715N 1131420E		
	WAC NO : 0288	BE/OBJ NO: []	NPIC NO : - 16-S2				25X1

25X1

1877
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



25X1
25X1

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

25X1

DIA NBRG NDA06-5077-77 04 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S080994

SEVASTOPOL NAVAL FACILITIES APPROACHES WEST UR 4436 N 03329 E
WAC NO : 0250 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 75 COMIREX NO:

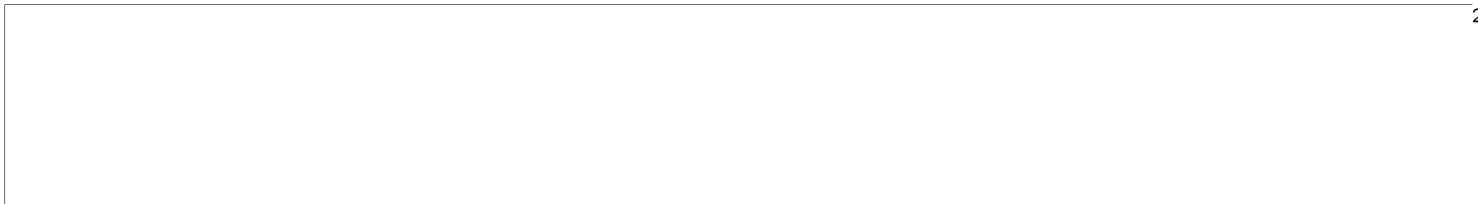
25X1
25X1

DIA NBRG NDA06-5078-77 04 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S080995

SEVASTOPOL NAVAL BASE UR 443628N 0333147E
WAC NO : 0250 BE/OBJ NO: [] NPIC NO : - 62-J5
IDHS CODE: [] EPF CAT : 75B COMIREX NO: []

25X1
25X1

25X1



AF PAR 566-77 15 JUN 77 [] SEC CLASS: 13 MSN: [] 14P ACCN: S08099725X1

MISSILES, ICBM TYPE 36 SILO CONSTRUCTION ANAL UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 40A COMIREX NO:

25X1

AF PAR 574-77 14 JUN 77 [] SEC CLASS: 13 MSN: [] 12P ACCN: S08099825X1

MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
WAC NO : 0167 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 : 0167 BE/OBJ NO: [] NPIC NO : - 58-N
IDHS CODE: [] EPF CAT : 40H COMIREX NO: []

25X1
25X15X1

25X1
25X1

MOSKVA GUIDED MISSILE AND SPACE RESEARCH CENTER REUTOV IS LOCATED 554544N/0375211E APPROXIMATELY 9 NAUTICAL MILES EAST OF THE CENTER OF MOSCOW, USSR. THE PLANT IS SURROUNDED BY AN EXTENSIVE APARTMENT COMPLEX ON THE WESTERN SIDE AND BY STORAGE, TRANSHIPMENT, AND GENERAL SUPPORT AREAS ADJACENT OT THE

1878
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

NORTHERN, EASTERN AND SOUTHERN SIDES. THE PLANT IS COMPRISED OF APPROXIMATELY 50 STRUCTURES AND COVERS AN AREA APPROXIMATELY 1,433 METERS LONG BY 579 METERS WIDE. IT IS SERVED BY BOTH ROAD AND RAIL, AND HAS INTERNAL AS WELL AND EXTERNAL POWER SOURCES.

ANALYSIS GIVES A COMPLETE ROOF COVER AND FLOORSPACE GROWTH STUDY AND A DESCRIPTION OF ALL MAJOR BUILDINGS, INCLUDING FUNCTION AND ASSOCIATIONS WHEN KNOWN. RESULTS OF A SEARCH FOR MISSILE CONTAINERS/EQUIPMENT, SPACE ASSOCIATED HARDWARE AND PROPULSION EQUIPMENT IS GIVEN. NO NEW HANDHELD PHOTOGRAPHY WAS AVAILABLE FOR CORRELATION.

A TABULATION PROVIDES THE CHRONOLOGICAL GROWTH OF ROOF COVER AND FLOORSPACE IN SQUARE METERS FROM JULY 1961 THROUGH OCTOBER 1976.

25X1

AF PAR 582-77 09 JUN 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S081001 25X1

NARYAN MAR TELEMETRY/TRACKING FACILITY	UR	673611N	0525848E
WAC NO : 0093	BE/OBJ NO: []	NPIC NO : -	4-D1
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []	
NARYAN MAR RADIO COMMUNICATIONS XMTR STATION	UR	673669N	0530528E
WAC NO : 0093	BE/OBJ NO: []	NPIC NO : -	4-C1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	
NARYAN MAR RADIO COMMUNICATIONS XMTR STA WEST	UR	673750N	0525400E
WAC NO : 0093	BE/OBJ NO: []	NPIC NO : -	4-D3
IDHS CODE: []	EPF CAT : 25U	COMIREX NO: []	

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT UPDATES PAR 76-661 AND DRAWING NUMBER 75F6526/2, 'NARYAN MAR TELEMETRY/TRACKING FACILITY'.

25X1

AF PAR 584-77 10 JUN 77 [] SEC CLASS: 13 MSN: [] 8P ACCN: S081001 25X1

TELINGHA MILITARY STORAGE AREA NW	CH	373358N	0964952E
WAC NO : 0332	BE/OBJ NO: []	NPIC NO : -	71
IDHS CODE: []	EPF CAT : 35F	COMIREX NO: []	
TELINGHA MILITARY STORAGE AREA	CH	372647N	0971537E
WAC NO : 0332	BE/OBJ NO: []	NPIC NO : -	72
IDHS CODE: []	EPF CAT : 35F	COMIREX NO: []	
TELINGHA PETROLEUM PRODUCTS STORAGE AREA POSS	CH	372943N	0970326E
WAC NO : 0332	BE/OBJ NO: []	NPIC NO : -	72-A
IDHS CODE: []	EPF CAT : 80A	COMIREX NO: []	

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1879

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

TELINGHA MILITARY STORAGE AREA NORTH	CH 372944N 0971433E
WAC NO : 0332	NPIC NO : - 72-C
IDHS CODE: []	COMIREX NO: []
TELINGHA MILITARY STORAGE AREA NNE	CH 372940N 0972056E
WAC NO : 0332	NPIC NO : - 72-B
IDHS CODE: []	COMIREX NO: []
LIUCHINGKOU SSM SITE 4 RAIL-SERVED ADITS	CH 381348N 1001559E
WAC NO : 0332	NPIC NO : 36-D
IDHS CODE: []	COMIREX NO: []
LIENKENGWANG SSM COMPLEX RAIL-SERVED ADITS	CH 301200N 1174330E
WAC NO : 0493	NPIC NO : - 124
IDHS CODE: []	COMIREX NO: []
CHIENSHUI SSM COMPLEX RAIL-SERVED ADITS	CH 233805N 1025030E
WAC NO : 0616	NPIC NO : - 517-A5
IDHS CODE: []	COMIREX NO: []
TUNGTAO ICBM CAVE/TUNNEL CONSTRUCTION SOUTH	CH 261120N 1095400E
WAC NO : 0497	NPIC NO : - 100-C3
IDHS CODE: []	COMIREX NO: []
SUNTIEN SSM COMPLEX RAIL-SERVED ADITS	CH 334700N 1120430E
WAC NO : 0385	NPIC NO : - 125
IDHS CODE: []	COMIREX NO: []
TRANSPORTATION, RAIL-SERVED ADITS MSL ASSOC	CH
WAC NO :	NPIC NO :
IDHS CODE: []	COMIREX NO:
	EPF CAT : 85B

25X1
25X1.1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

RECENT CONSTRUCTION ACTIVITY AT THE TE-LING-HA STORAGE AREAS HAS PROVIDED INDICATORS THAT THESE AREAS MAY BE MISSILE ASSOCIATED. THE CONSTRUCTION INCLUDES CAVES WITH RAILS EXTENDING FOR SHORT DISTANCES FROM THE ENTRANCES; NEW, IMPROVED, WIDE-RADIUS ACCESS ROADS; CAMOUFLAGE NETTING AT CAVE ENTRANCES; AND A POSSIBLE SUPPORT/CONTROL AREA.

ANALYSIS OF THESE AREAS INCLUDES THE FOLLOWING: CONSTRUCTION CHRONOLOGY TO INCLUDE NEGATION DATES OF MAJOR FACILITIES (CAVES, BLDGS, ROADS, ETC.); DIMENSIONS OF ALL RAIL-IN FEATURES AT THE CAVE ENTRANCES, ALL ACTIVITY AND EQUIPMENT WHICH MAY BE MISSILE ASSOCIATED, ANY TRENCHING OR OVERHEAD LINES WHICH MAY BE COMMUNICATIONS ASSOCIATED, AND A SEARCH OF THE AREA WITHIN A 25 KM RADIUS OF THE AREAS IDENTIFIED FOR ANY POSSIBLE ASSOCIATED FACILITIES. (RRTP'S, SUPPORT AREAS, RAIL SPURS, COMMUNICATIONS FACILITIES, ETC.)

25X1

1880
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF PAR 588-77 08 JUN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081003 25X1

KUCHENG SSM FACILITY SEARCH
WAC NO : 0385 BE/OBJ NO: CH 3225 N 11104 E
IDHS CODE: EPF CAT : 40 NPIC NO :
COMIREX NO:

AF PAR 589-77 02 JUN 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S081004 25X1

KAMCHATKA MISSILE IMPACT AREAS ELCT FACS 1-12 UR 5713 N 16144 E
WAC NO : 0132 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 25C COMIREX NO:

25X1
25X1

AF PAR 593-77 14 JUN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081007 25X1

BAKU HEN HOUSE ABM RADAR FACILITY SEARCH UR 4000 N 04900 E
WAC NO : 0325 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 25C COMIREX NO:

25X1

1881
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

AF PAR 594-77 15 JUN 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S0810025X1

SAVOSTLEYKA AW RADAR FACILITY BACK NET ANAL		UR	552710N 0422120E
WAC NO : 0166	BE/OBJ NO: []	NPIC NO :	15-6
IDHS CODE: []	EPF CAT : 25A	COMIREX NO: []	
ELECTRONICS, BACK NET EW/GCI RADAR		UR	
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 25A	COMIREX NO:	

25X1
25X1

25X1

AF PAR 604-77 05 JUL 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S0810125X1

1882
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

BARYBINO RADIO COMMO RCVR STA HARD ANT FIELD UR 551636N 0375542E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 121-W
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

AF PAR 608-77 06 JUL 77 SEC CLASS: 13 MSN: 2P

ACCN: S081013

AIRCRAFT, KASP A ENGINE D-30 TURBOFAN POSS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05B COMIREX NO:

25X1

AF REPT 667-76 08 APR 77 SEC CLASS: 13 MSN: 20P

ACCN: S081014

IVANKOVO ELECTRONICS R+D FACILITY PROB UR 564350N 0370600E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 1A-F1
IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES A PHOTO ANALYSIS OF THE IVANKOVO PROBABLE ELECTRONICS R+D FACILITY. IT INCLUDES A CHRONOLOGY OF FACILITY GROWTH EXPRESSED IN TERMS OF ROOF COVERAGE AND FLOORSPACE AND A DETAILED DESCRIPTION OF SIGNIFICANT BUILDINGS AND STRUCTURES.*

AF PAR 612-77 13 JUL 77 SEC CLASS: 13 MSN: 4P

ACCN: S081015

REPIKHOVO RADIO RELAY + RADIO COMMO XMTR STA UR 561407N 0380018E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 73-F
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

THE REPIKHOVO RADREL AND RADCOM XMTR STATION IS LOCATED IN A WOODED AREA APPROXIMATELY 43 NAUTICAL MILES NORTHEAST OF MOSCOW. RECENT PHOTOGRAPHY INDICATES THAT SOME OF THE HF ANTENNAS AT THIS FACILITY HAVE BEEN, OR WILL BE, REALIGNED/MODIFIED. THE QUALITY OF THIS PHOTOGRAPHY PRECLUDES A DETAILED PHOTO ANALYSIS OF THE PRESENT CONFIGURATION/STATUS OF THE HF ANTENNA FIELD AT THIS TIME. A TABLE OF ANTENNA TYPES, ORIENTATION, AND SIZE OF THE HF ANTENNAS LOCATED AT THE FACILITY IN 1972 IS INCLUDED.*

25X1

25X1

AF PAR 614-77 13 JUL 77 SEC CLASS: 13 MSN: 2P

ACCN: S081016

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 165 UR 554935N 0373935E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 45-B5
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1

25X1

THIS REPORT PROVIDES A TABULATION OF ROOF COVERAGE, A DESCRIPTION, AND PROBABLE FUNCTIONAL ROLE OF THE BUILDINGS WITHIN THE MOSKVA EXPERIMENTAL ENGINE PLANT 165.*

1883
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR B4501-2-70 08 JUL 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0810125X1

MOSKVA AIRCRAFT ENG EXPMT PLANT 165 TEST CELL UR 554935N 0373935E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 45-B5
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1

AF ENDR C4507-77 17 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0810125X1

MISSILES, RING FIXTURE RAIL MOUNTED UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 40I COMIREX NO:

AF ENDR C6508-77 15 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0810125X1

WUHAN ENGINEERING INSTITUTE CENTRAL CH 303110N 1142500E
WAC NO : 0493 BE/OBJ NO: [] NPIC NO : - 36-C1
IDHS CODE: [] EPF CAT : 65A COMIREX NO: []

25X1
25X1
25X1

AF ENDR C6520-5-71 08 JUL 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0810225X1

MOSKVA AIRCRAFT ENGINE EXPERIMENTAL PLANT 165 UR 554935N 0373935E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 45-B5
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

25X1
25X1
25X1

1884
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

AF ENDR C6569-2-70 15 MAY 76 [REDACTED] SEC CLASS: 13 MSN: 1P ACCN: S081025 25X1
 MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
 WAC NO : 0167 BE/OBJ NO: [REDACTED] NPIC NO : - 58-N 25X1
 IDHS CODE: [REDACTED] EPF CAT : 40E COMIREX NO: [REDACTED] 25X1

AF ENDR D3502-77 13 MAY 77 [REDACTED] SEC CLASS: 13 MSN: 1P ACCN: S081026 25X1
 MISSILES, ICBM TYPE 3F SILO CONVERSION UR
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : 25X1
 IDHS CODE: [REDACTED] EPF CAT : 40A COMIREX NO: 25X1

AF ENDR E1510-4-75 07 JUN 77 [REDACTED] SEC CLASS: 13 MSN: 1P ACCN: S081027 25X1
 MISSILES, ICBM TYPE 3F SILO UR
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : 25X1
 IDHS CODE: [REDACTED] EPF CAT : 40A COMIREX NO: 25X1

AF ENDR E1516-1-76 07 JUN 77 [REDACTED] SEC CLASS: 13 MSN: 1P ACCN: S081028 25X1
 MISSILES, ICBM TYPE 3C/3F SILO CONVERSION UR
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO :
 IDHS CODE: [REDACTED] EPF CAT : 40A COMIREX NO: 25X1

AF ENDR E6526-2-75 24 MAY 77 [REDACTED] SEC CLASS: 13 MSN: 1P ACCN: S081029 25X1
 NARYAN MAR TELEMETRY/TRACKING FACILITY UR 673611N 0525848E
 WAC NO : 0093 BE/OBJ NO: [REDACTED] NPIC NO : - 4-01 25X1
 IDHS CODE: [REDACTED] EPF CAT : 25C COMIREX NO: [REDACTED] 25X1

AF PAR 2-77 08 JUL 77 [REDACTED] SEC CLASS: 07 MSN: 2P ACCN: S081030
 AIRCRAFT, CLASSIC MOD IL-62 ANTENNA ANALYSIS UR
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : 25X1
 IDHS CODE: [REDACTED] EPF CAT : 05D COMIREX NO: 25X1
 AIRCRAFT, CRUSTY TU-134 ANTENNA ANALYSIS UR
 WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : 25X1
 IDHS CODE: [REDACTED] EPF CAT : 05D COMIREX NO: 25X1

1885
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS REPORT GIVES AN ANALYSIS OF THE PLATFORMED DORSAL SPINE OBSERVED ON A CLASSIC AND IT DESCRIBES THE ELECTRONIC FITMENTS ON A CRUSTY, BOTH OBSERVED AT SCHOENEFELD AIRFIELD.*

AF PAR 3-77 15 JUN 77 SEC CLASS: 05 X MSN: 2P ACCN: S081031

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

25X1

THIS REPORT GIVES AN UPDATE OF THE CURRENT FLOGGER B BASED ON RECENTLY RECEIVED HANDBOOKS AND SCALED PHOTOGRAPHY OF FLOGGER E, THE EXPORT VERSION OF THE FLOGGER B. OF SPECIFIC INTEREST ARE THE FUSELAGE FRAME LOCATIONS AND CROSS-SECTION CONFIGURATION.*

AF PAR 542-77 29 APR 77 SEC CLASS: 13 MSN: 6P ACCN: S081032

MISSILES, ICBM TYPE 3H SILO UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40A COMIREX NO:

25X1

THIS REPORT DESCRIBES THE MODIFICATIONS OF THE ORIGINAL TYPE IIIH SILO DOOR WHICH HAS BEEN DEPLOYED IN LAUNCH GROUPS K AND M AT YEDROVO SSM COMPLEX. PHOTOGRAPHY USED WAS FROM

25X1

AF PAR 545-77 14 APR 77 SEC CLASS: 13 MSN: 4P ACCN: S081033

PALATKI COMMAND CONTROL XMTR FAC BKR HARD U/I UR 544350N 0352245E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 18
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

25X1

THIS REPORT DESCRIBES THE PALATKI UNIDENTIFIED COMMAND AND CONTROL TRANSMITTER FACILITY BUNKERED HARD. THE FACILITY CONSISTS OF THREE ANTENNA FIELDS (WESTERN 'A', CENTRAL 'B', AND EASTERN 'C'), AN ADMINISTRATION AND SUPPORT AREA, AN ELECTRICAL SUBSTATION, AND CONSTRUCTION SUPPORT AREA. ALL PERTINENT

25X1

25X1

1886
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

AF PAR 549-77 13 MAY 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 9P ACCN: S081035 25X1

MISSILES, R+D/PRODUCTION FACILITIES CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40E COMIREX NO:

THIS REPORT GIVES IN SUB-PARAGRAPHS A LIST OF THE PEOPLES REPUBLIC OF CHINA RESEARCH AND DEVELOPMENT AND MISSILE TEST FACILITIES. THE LIST CONTAINS THE BE NUMBER OF THE FACILITY, A NEW ROOF COVER, TOTAL ROOF COVER, NEW FLOOR SPACE, TOTAL FLOOR SPACE, THE LAST KEYHOLE MISSION USED, ROOFAGE STILL UNDER CONSTRUCTION, AND THE LAST FOREIGN TECHNOLOGY DIVISION PHOTO ANALYSIS REPORT.*

[Large Redacted Area]

25X1

1887
TOP SECRET CHESS RUFF

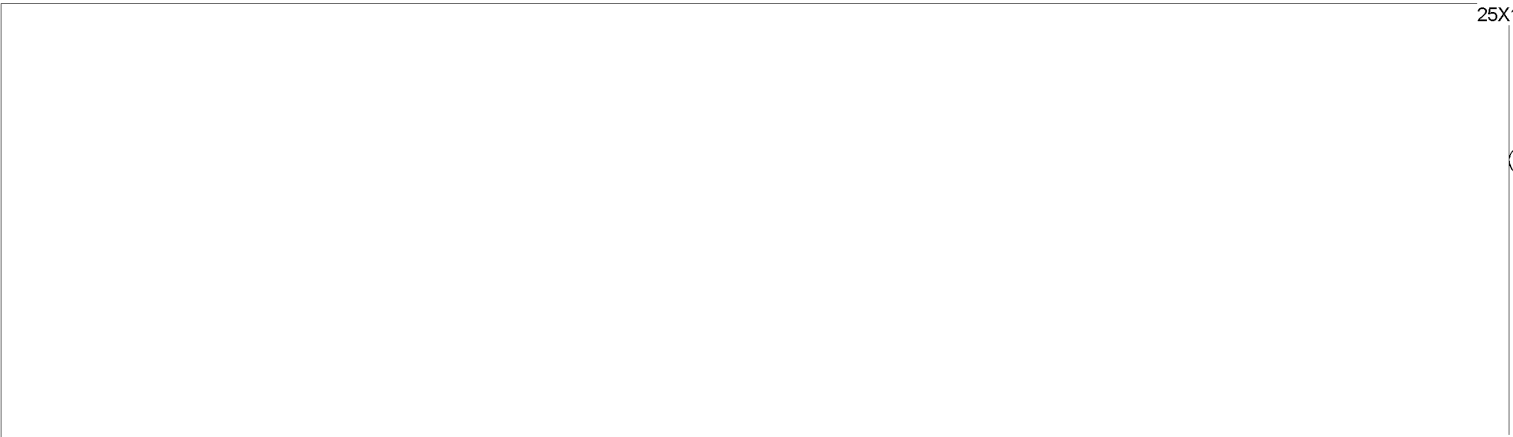
25X1



TOP SECRET CHESS RUFF



25X1
25X1



25X1

AF PAR 556-77 04 MAY 77 [REDACTED] SEC CLASS: 13 MSN: 3P ACCN: S081036 25X1

KAMENETS PODOLSKIY SPACE TRACKING FACILITY UR 485110N 0264300E
WAC NO : 0233 BE/OBJ NO: [REDACTED] NPIC NO : - 23-B4
IDHS CODE: [REDACTED] EPF CAT : 25C COMIREX NO: [REDACTED]

25X1
25X1

THIS REPORT GIVES AN ANALYSIS OF THE KAMENETS-PODOLSKIY SPACE TRACKING FACILITY. THE FACILITY IS ADJACENT TO THE LAUNCH PADS OF THE DEACTIVATED KAMENETS-PODOLSKIY MRBM LAUNCH SITE 1. THERE IS ALSO A COMPARISON BETWEEN THIS FACILITY AND ULAN UDE ESV TRACKING FACILITY.*

AF PAR 558-77 27 APR 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 2P ACCN: S081036 25X1

SHENYANG/TUNGHUA TELCOM LINE SSM FACIL SEARCH CH 414340N 1255230E
WAC NO : 0290 BE/OBJ NO: [REDACTED] NPIC NO : - 66-H4
IDHS CODE: [REDACTED] EPF CAT : 40 COMIREX NO: [REDACTED]
SHENYANG/TUNGHUA TELCOM LINE SSM FACIL SEARCH CH 414340N 1255230E
WAC NO : 0290 BE/OBJ NO: [REDACTED] NPIC NO : - 66-H4
IDHS CODE: [REDACTED] EPF CAT : 25D COMIREX NO: [REDACTED]

25X1
25X1
25X1
25X1

A 28-KILOMETER-RADIUS SEARCH, CENTERED ON SEVEN FACILITIES ALONG AN UNDERGROUND TELECOM LINE RUNNING BETWEEN SHEN-YANG AND TUNG-HUA, WAS CONDUCTED TO DETERMINE IF SSM LAUNCH FACILITIES ARE PRESENT. ALL

1888
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

AF PAR 559-77 06 MAY 77 [] SEC CLASS: 13 MSN: [] 10P ACCN: S081040 25X1

MOSKVA MISSILE/SPACE PRPLN DEV CTR KHIMKI 456 UR 555420N 0372651E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 48
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

AF PAR 567-77 07 JUL 77 [] SEC CLASS: 13 MSN: [] 32P ACCN: S081042 25X1

SPACE, R+D FACILITIES ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:
AIRCRAFT, R+D/PROD FACILS ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05G COMIREX NO:
MISSILES, R+D/PROD FACILS ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

25X1

ELECTRONICS, R+D FACILS ROOF AREA INCREASE UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25E COMIREX NO:

THIS REPORT UPDATES PAR 77-508 ON USSR RESEARCH AND DEVELOPMENT FACILITIES AND GIVES EACH FACILITY'S INDIVIDUAL GROWTH/EXPANSION FOR CALENDAR YEAR 1976.*

AF PAR 569-77 11 MAY 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081043 25X1

25X1

1889
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

TYURATAM MTC ICBM SUPPORT FACIL 7 R-400 ANT	UR	460324N 0625626E
WAC NO : 0246	BE/OBJ NO:	NPIC NO : - 6-E6
IDHS CODE:	EPF CAT : 25C	COMIREX NO:
TYURATAM MTC ICBM SUPPORT FACIL 2 R-400 ANT	UR	455946N 0633453E
WAC NO : 0246	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25C	COMIREX NO:
TYURATAM MTC SRF COMMAND POST BKR R-400 ANT	UR	453705N 0631912E
WAC NO : 0246	BE/OBJ NO:	NPIC NO : - 6-A1
IDHS CODE:	EPF CAT : 25C	COMIREX NO:
TYURATAM MTC ICBM SUPPORT FACIL 31 R-400 ANT	UR	455536N 0631626E
WAC NO : 0246	BE/OBJ NO:	NPIC NO : - 6-Y4
IDHS CODE:	EPF CAT : 25C	COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT GIVES AN ANALYSIS OF THE R-400 MICROWAVE RADIO RELAY NETWORK AT TYURATAM RANGEHEAD FACILITIES.*

AF PAR 570-77 18 MAY 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S08104-25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155	UR	554846N 0373034E
WAC NO : 0167	BE/OBJ NO:	NPIC NO : - 97-B1
IDHS CODE:	EPF CAT : 05G	COMIREX NO:

25X1

25X1

AF PAR 571-77 18 MAY 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 2P ACCN: S0810425X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115	UR	554817N 0373126E
WAC NO : 0167	BE/OBJ NO:	NPIC NO : - 46-C1
IDHS CODE:	EPF CAT : 05G	COMIREX NO:

25X1

25X1

AF PAR 592-77 20 JUN 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 4P ACCN: S08104-25X1

CHIUMENGCHIN SSM FIELD POSITION	CH	344809N 1124025E
WAC NO : 0385	BE/OBJ NO:	NPIC NO : - 17-A1
IDHS CODE:	EPF CAT : 40	COMIREX NO:

25X1

25X1

THIS REPORT GIVES A DETAILED ANALYSIS OF THE CHIU-MENG-CHIN SSM FIELD POSITION AND INCLUDES A CONSTRUCTION CHRONOLOGY AND GROUND SUPPORT EQUIPMENT (GSE)/MISSILE OBSERVATIONS.*

[Redacted]

25X1

1890
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF PAR 605-77 01 JUL 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081048 25X1

AKHTUBINSK/VLADIMIROVKA AIRFIELD FOXBAT MODIF	UR	481838N 0461424E
WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 18-B1
IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []
AIRCRAFT: FOXBAT MIG-25 MODIFIED	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05D	COMIREX NO:

25X1

25X1

THIS REPORT GIVES AN ANALYSIS OF TWO MODIFIED FOXBAT SEEN AT AKHTUBINSK/VLADIMIROVKA AIRFIELD. A DESCRIPTION OF THE MODIFICATIONS ARE DESCRIBED IN THIS REPORT.*

1891
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF PAR 606-77 07 JUL 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081045 25X1
 ELECTRONICS, ODD LOT RADAR/VARIANT CH NPIC NO : 25X1
 WAC NO : BE/OBJ NO: COMIREX NO:
 IDHS CODE: EPF CAT : 25A

THE ODD LOT AND THE ODD LOT VARIANT RADARS ARE PRODUCED IN CHINA. THE DIMENSIONS GIVEN IN THIS PAR ARE THE RESULT OF MEASURING THE SUBJECT RADARS AT FACILITIES WHERE THEY ARE DEPLOYED, INSTEAD OF AT PRODUCTION, TESTING, AND TRAINING FACILITIES.*

AF PAR 609-77 05 JUL 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081055 25X1
 TAKOLA MISSILE ACTIVITY SEARCH CH 3753 N 07644 E
 WAC NO : 0335 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40 COMIREX NO:

AF PAR 611-77 07 JUL 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: S081055 25X1
 MOSKVA MISSILE ASSOCIATED INSTL BKR/ANTENNAS UR 551143N 0363735E 25X1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 7-A 25X1
 IDHS CODE: EPF CAT : 25C COMIREX NO: []
 PERKHUSHKOVO SRF COMD CNTRL CTR VESNA HORNS UR 554120N 0371051E 25X1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 76-A 25X1
 IDHS CODE: EPF CAT : 25C COMIREX NO: [] 25X1
 NOVOPEUROVSKOYE SRF RADCOM XMTR VESNA HORNS UR 555620N 0362726E 25X1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 141 25X1
 IDHS CODE: EPF CAT : 25C COMIREX NO: [] 25X1
 NARO FOMINSK SRF RADCOM RCVR CPLX VESNA HORNS UR 551918N 0364749E 25X1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 62-C 25X1
 IDHS CODE: EPF CAT : 25C COMIREX NO: [] 25X1
 ZELENograd COMMAND CNTRL RCVR BKR U/I TOWER UR 560135N 0371255E 25X1
 WAC NO : 0154 BE/OBJ NO: NPIC NO : - 74-A2 25X1
 IDHS CODE: EPF CAT : 25D COMIREX NO: [] 25X1
 VISHNYAKOVO RADCOM + AM BDCST XMTR STA TOWER UR 554425N 0380930E 25X1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 12-D 25X1
 IDHS CODE: EPF CAT : 25D COMIREX NO: [] 25X1
 VISHNYAKOVO RADCOM + AM BDCST XMTR STA TOWER UR 554425N 0380930E 25X1
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 12-D 25X1
 IDHS CODE: EPF CAT : 25B COMIREX NO: [] 25X1
 ELECTRONICS, VESNA HORN AZIMUTHS/TWR HEIGHTS UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25D COMIREX NO:

1892 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR B1510-77 07 JUN 77 [] SEC CLASS: 13 MSN: 1P ACCN: S081052 25X1
 SARY SHAGAN MTC ELCT TEST FAC COFFIN SHELTER UR 455100N 0733500E
 WAC NO : 0245 BE/OBJ NO: [] NPIC NO : - 34-D2 25X1
 IDHS CODE: [] EPF CAT : 25C COMIREX NO: [] 25X1

AF ENDR B3005-77 11 APR 77 SEC CLASS: 07 MSN: 1P ACCN: S081054
 ELECTRONICS, STRAIGHT FLUSH TRKG/GDNC RADAR UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 25A COMIREX NO:

AF ENDR B3006-77 02 MAY 77 SEC CLASS: 07 MSN: 1P ACCN: S081055
 AIRCRAFT, FLOGGER D MIG-23 PORT WING POD UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : USD COMIREX NO:

AF ENDR C1007-77 13 JUN 77 SEC CLASS: 07 MSN: 1P ACCN: S081056
 ELECTRONICS, THIN SKIN A/B FEED HORN UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 25A COMIREX NO:

AF ENDR C1508-77 27 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081057 25X1
 ELECTRONICS, BACK TO BACK PLANAR APERTURE RDR UR
 WAC NO : BE/OBJ NO: [] NPIC NO :
 IDHS CODE: EPF CAT : 25A COMIREX NO:

AF ENDR C3501-77 25 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081058 25X1
 MISSILES, ICBM TYPE 3H SILO UPPER DETAILS UR
 WAC NO : BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 40A COMIREX NO:

1893 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

AF ENDR C4528-1-76 13 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08106025X1
 TYURATAM MTC ICBM SITE V4 UR 460325N 0630154E
 WAC NO : 0246 BE/OBJ NO: [] NPIC NO : - 6-T1 25X1
 IDHS CODE: [] EPF CAT : 40A COMIREX NO: [] 25X1

AF ENDR C6503-1-76 05 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08106125X1
 MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115 UR 554817N 0373126E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 46-C1 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

AF ENDR C6504-1-76 05 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08106225X1
 MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155 UR 554846N 0373034E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 97-B1 25X1
 IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

25X1

AF ENDR C6512-77 22 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08106425X1
 MOSKVA MISSILE/SPACE PRPLN DEV CTR KHIMKI 456 UR 555420N 0372651E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 48 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1
 MOSKVA MISSILE/SPACE PRPLN DEV CTR KHIMKI 456 UR 555420N 0372651E
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 48 25X1
 IDHS CODE: [] EPF CAT : 40H COMIREX NO: [] 25X1

AF ENDR C6543-2-74 17 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08106525X1
 PLESETSK MTC TELEMETRY/TRACKING FACILITY UR 625642N 0412621E
 WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 71 25X1

25X1

1894
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUF

25X1
25X1

AF ENDR C6589-5-70 17 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081066 25X1

MOSKVA AIRCRAFT EXPERIMENTAL PLANT TSA6I 156 UR 554542N 0374034E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 96-D
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1
25X1

AF ENDR D6505-77 01 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081068 25X1

YEDROVO SSM COMPLEX ICBM DEPLOYMENT UR 574640N 0331315E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 72-A
IDHS CODE: [] EPF CAT : 40A COMIREX NO: []

25X1
25X1

AF ENDR D6507-77 27 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081069 25X1

MIASS MISSILE DEVELOPMENT + PROD FACIL PROB UR 550639N 0600855E
WAC NO : 0164 BE/OBJ NO: [] NPIC NO : - 70-A2
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []

25X1
25X1

AF ENDR E1030-1-70 10 JUN 77 [] SEC CLASS: 05 MSN: [] 1P ACCN: S081071

AIRCRAFT, BLINDER C TU-22 UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 05D COMIREX NO:

25X1

AF ENDR E1515-1-76 08 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081072 25X1

MISSILES, ICBM TYPE 3H SILO ANALYSIS UR
WAC NO : [] BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 40A COMIREX NO:

25X1

1895
TOP SECRET CHESS RUF

25X1

Page Denied

TOP SECRET CHESS RUFF

25X1

AF PAR 550-77 14 APR 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S081076 25X1

PENZA COMMAND CONTROL RADCOM XMTR STA HARD UR 532124N 0451814E
WAC NO : 0166 BE/OBJ NO: [] NPIC NO : - 17-0
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1
25X1

THIS REPORT IS AN UPDATED ANALYSIS OF PENZA COMMAND CONTROL RADCOM XMTR STA HARD, AND SUPERCEDES PAR 74-574. ANNOTATIONS ARE KEYED TO DRAWING 74E4510 (REV. 1).*

AF PAR 554-77 25 APR 77 [] SEC CLASS: 13 MSN: [] 12P ACCN: S081077 25X1

MOSKVA SCIENTIFIC RESEARCH INST MACHINE BLDG UR 555130N 0373630E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 45-B2
IDHS CODE: [] EPF CAT : 65A COMIREX NO: []

25X1
25X1

THE MOSKVA SCIENTIFIC RESEARCH INSTITUTE OF MACHINE BUILDING MINISTRY NII-MM IS LOCATED APPROXIMATELY SEVEN NAUTICAL MILES NORTH OF THE CENTER OF MOSKVA IN A RELATIVELY OPEN AREA. IT OCCUPIES A SECURED AREA THAT MEASURES 425 METERS BY 425 METERS. HIGH-RISE APARTMENT BUILDINGS AND SOME PROBABLE OFFICE BUILDINGS SURROUND THE FACILITY AND ARE SO ARRANGED (STAGGERED AND CANTED) TO DISRUPT THE GROUND LEVEL VIEW OF THE FACILITY ON THREE SIDES WITH OPEN FIELDS OR ORCHARDS ON THE OTHER SIDE. THE FACILITY IS COMPRISED OF SEVERAL MAJOR BUILDINGS, WITH ONE EARTH-COVERED PROBABLE TEST BUILDING. THERE ARE RELATIVELY FEW SUPPORT BUILDINGS, SOME OF WHICH PROBABLY SERVE A MORE IMPORTANT FUNCTION THAN CAN BE ASSESSED FROM OVERHEAD PHOTOGRAPHY. THE FACILITY IS ROAD SERVED AND A SECURED RAIL-SERVED WAREHOUSE AREA IS LOCATED ONE KILOMETER SOUTH. NO ELECTRICAL SUBSTATION WAS OBSERVED WITHIN THE FACILITY.

CONTAINED WITHIN THIS ANALYSIS IS A FUNCTIONAL DESCRIPTION OF EACH SIGNIFICANT BUILDING/STRUCTURE TOGETHER WITH CONSTRUCTION TIMING, ROOF COVERAGE AND FLOORSPACE. COMMENTS CONCERNING HARDWARE OBSERVATIONS AND BOUNDARY CHANGES ARE ALSO INCLUDED. ANNOTATION NUMBERS AND LETTERS ARE KEYED TO DRAWING 75D6519/1.

AF PAR 560-77 03 MAY 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081078 25X1

MOSKVA GUIDED MISSILE PLANT 82 AIRCRAFT COUNT UR 555023N 0372702E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 52
IDHS CODE: [] EPF CAT : 40E COMIREX NO: []
MOSKVA GUIDED MISSILE PLANT 82 AIRCRAFT COUNT UR 555023N 0372702E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 52
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []
AIRCRAFT AIRFRAME COMPONENT U/I UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1
25X1
25X1
25X1
25X1

25X1

25X1

1897
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



25X1



25X1

AF PAR 563-77 04 MAY 77 [redacted] SEC CLASS: 13 MSN: [redacted] 4P ACCN: 50810225X1

AVCHI RADIO RELAY/TROPO STA SQUARE SCREEN ANT UR 392836N 0690014E

1898
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0336	BE/OBJ NO: []	NPIC NO : - 10	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
AYTYM TROPOSCATTER STATION	SQUARE SCREEN ANTS	UR 420934N 0633523E	25X1
WAC NO : 0327	BE/OBJ NO: []	NPIC NO : - 19-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
DERBENT TROPO/RDO RELAY STA	SQUARE SCREEN ANT	UR 381321N 0665659E	25X1
WAC NO : 0337	BE/OBJ NO: []	NPIC NO : - 207	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
DUSHANBE TROPO/RADIO RELAY STA	SQUARE SCREEN	UR 384355N 0684450E	25X1
WAC NO : 0336	BE/OBJ NO: []	NPIC NO : - 8-N1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
DZHARKURGAN TV/TROPO/RADCOM	STA SQUARE SCREEN	UR 373045N 0671800E	25X1
WAC NO : 0336	BE/OBJ NO: []	NPIC NO : - 6-D1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
ELECTRONICS, SQUARE SCREEN	COMMO ANTENNA NEW	UR	25X1
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	
TOKMAK TROPOSCATTER STATION	SQUARE SCREEN ANT	UR 403912N 0693536E	25X1
WAC NO : 0328	BE/OBJ NO: []	NPIC NO : 58-A2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	
SOVETSKIY TROPO/RADIO RELAY	STA SQUARE SCREEN	UR 401015N 0711840E	25X1
WAC NO : 0328	BE/OBJ NO: []	NPIC NO : 98-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
DZHARKURGAN TV/TROPO/RADCOM	STA SQUARE SCREEN	UR 373045N 0671800E	25X1
WAC NO : 0336	BE/OBJ NO: []	NPIC NO : - 6-D1	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO: []	25X1
FAKHRABAD TROPO/RADIO RELAY	STA SQUARE SCREEN	UR 381832N 0683935E	25X1
WAC NO : 0336	BE/OBJ NO: []	NPIC NO : - 8-K2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
KISHLYK TROPO/RDO RELAY STA	SQUARE SCREEN ANT	UR 391742N 0665442E	25X1
WAC NO : 0337	BE/OBJ NO: []	NPIC NO : - 30-C	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
MIN KUSH TROPOSCATTER STA	SQUARE SCREEN SRCH	UR 414330N 0742930E	25X1
WAC NO : 0328	BE/OBJ NO: []	NPIC NO : - 154	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1

THIS REPORT DESCRIBES TYPE, SIZE, AND ORIENTATION OF ANTENNAS AT 10 SELECTED COMMUNICATIONS STATIONS. A DESCRIPTION OF THE SQUARE PAIR ANTENNA IS INCLUDED.*

25X1

1899
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Large Redacted Block]

25X1

AF PAR 568-77 15 JUN 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 2P ACCN: S081085 25X1

AIRCRAFT, RAM E MODIFIED UR
WAC NO : BE/OBJ NO: [Redacted] NPIC NO : 25X1
IDHS CODE: EPF CAT : 05D COMIREX NO: 25X1
RAMENSKOYE FLIGHT TEST CENTER RAM E MODIFIED UR 553418N 0380923E
WAC NO : 0167 BE/OBJ NO: [Redacted] NPIC NO : - 50 25X1
IDHS CODE: [Redacted] EPF CAT : 05G COMIREX NO: [Redacted] 25X1

AF PAR 572-77 20 MAY 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 10P ACCN: S081085 25X1

MOSKVA MISSILE PROD PLANT CHELOMEY DESIGN BUR UR 554524N 0372926E
WAC NO : 0167 BE/OBJ NO: [Redacted] NPIC NO : - 46-I 25X1
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted] 25X1

THIS REPORT IS AN UPDATED ANALYSIS OF MOSKVA MISSILE PRODUCTION PLANT FILI 23, THE CHELOMEY OKB ONLY, AND SUPERCEDES PARS 70-747, 72-803, AND 74-505. IT CONTAINS A CHRONOLOGY OF CHANGES IN ROOF COVERAGE AND FLOOR SPACE, A FUNCTIONAL IDENTIFICATION AND DESCRIPTION OF EACH SIGNIFICANT BUILDING, AND A CHRONOLOGY OF HARDWARE SIGHTINGS.*

AF PAR 576-77 26 MAY 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 7P ACCN: S081085 25X1

1900
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

VORONEZH RADIO COMMO R+D TEST STATION HARD UR 513659N 0390023E
WAC NO : 0234 BE/OBJ NO: NPIC NO : - 46-05
IDHS CODE: EPF CAT : 25E COMIREX NO:

25X1
25X1
25X1

THE VORONEZH RADCOM R+D TEST STA/HARD CONTAINS ONE COMPLETE AND ONE INCOMPLETE BI-GRID PROBABLE BURIED ANTENNA, TWO PROBABLE CIRCULAR STRUCTURES UNDER CONSTRUCTION, TWO TRENCHING PATTERNS WHICH RESEMBLE A PORTION OF AN ELL PROBABLE BURIED ANTENNA, TWO 30-METER MASTS, A QUAD-TRI STRUCTURE, A PARTIALLY EARTH-COVERED FOUNDATION, TWO RECTANGULAR STRUCTURES, A CONTROL BUILDING, AT LEAST 17 SUPPORT BUILDINGS, AND SEVERAL TRUCKS/VANS.

THIS REPORT PROVIDES A DESCRIPTION OF THE PHYSICAL CONSTRUCTION FOR EACH ANTENNA OR POSSIBLE ANTENNA AND A CHRONOLOGY OF ALL BUILDINGS AND ANTENNAS.

NEITHER LINE-OF-SIGHT RADIO RELAY ANTENNAS NOR CABLE TRENCHING FROM THE FACILITY COULD BE IDENTIFIED ON SMALL SCALE PHOTOGRAPHY USED IN THIS SEARCH.*

AF PAR 577-77 24 MAY 77 SEC CLASS: 13 MSN: 2P ACCN: 508108 25X1

MINFENG MISSILE IMPACT AREA CRATERS CH 365005N 0825910E
WAC NO : 0334 BE/OBJ NO: NPIC NO : - 7
IDHS CODE: EPF CAT : 40 COMIREX NO:

25X1
25X1
25X1

AF PAR 581-77 24 MAY 77 SEC CLASS: 13 MSN: 2P ACCN: 5081089 25X1

PLESETSK MTC TELEMETRY/TRACKING FACILITY UR 625642N 0412621E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 71
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

A 3 KILOMETER RADIUS SEARCH OF PLESEKTSK TELEMETRY TRACKING FACILITY WAS DONE TO IDENTIFY ANY

1901
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ELECTRONICS FACILITIES. THE ONLY CHANGE NOTED WAS THE REMOVAL OF THE RADAR T CONFIGURATION.*

AF PAR 583-77 16 JUN 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S08109 25X1

AKHTUBINSK/VLADIMIROVKA AIRFIELD FOXBAT MODIF UR 481838N 0461424E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 18-B1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
AIRCRAFT, FOXBAT MIG-25 MODIFIED UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1
25X1

A MODIFIED FOXBAT WAS INITIALLY OBSERVED AT AKHTUBINSK/VLADIMIROVKA AIRFIELD []
TWO MODIFIED FOXBAT WERE IDENTIFIED AT THIS INSTALLATION [] ONE WAS
PARKED ON A AAM SUPPORT COMPLEX PARKING APRON, AND THE SECOND WAS LOCATED ON A COMPLETED SMALL SOUTHWEST
SECONDARY FIGHTER RAMP. DIMENSION OF THE MODIFIED FOXBAT ARE GIVEN.*

25X1
25X1

AF PAR 585-77 24 MAY 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S08109 25X1

ELECTRONICS, ICBM TYPE 3X/3D LCF ANT PSTNS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25C COMIREX NO:

TYPE IIIX AND MODERNIZED TYPE IIID LAUNCH CONTROL FACILITIES WERE ANALYZED TO DETERMINE IF THESE
STRUCTURES COULD HOUSE POP-UP ANTENNAS. THE PHYSICAL EVIDENCE TO DATE INDICATES THAT THESE STRUCTURES ARE
NOT POP-UP ANTENNA POSITIONS.*

AF PAR 586-77 27 MAY 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S08109 25X1

KLYUCHI RADIO COMMUNICATIONS XMTR STATION 2 UR 561542N 1604652E
WAC NO : 0132 BE/OBJ NO: [] NPIC NO : - 6-C
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1
25X1

THIS MEMO GIVES AN UPDATED ANALYSIS OF THE KLYUCHI RADIO COMMUNICATIONS TRANSMITTER STATION 2. THE

25X1

AF ENDR A4508-77 17 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08109 25X1

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

25X1

1902
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF ENDR C6583-3-70 13 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081094 25X1
 MOSKVA MISSILE PRODUCTION PLANT FILI 23 UR 554524N 0372926E
 WAC NO : [] BE/OBJ NO: [] NPIC NO : - 46-I 25X1
 IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

AF ENDR D1507-77 25 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081095 25X1
 AIRCRAFT, CLOBBER A YAK-42 VARIANT UR
 WAC NO : [] BE/OBJ NO: [] NPIC NO : [] 25X1
 IDHS CODE: [] EPF CAT : 05D COMIREX NO: []

AF ENDR D4528-2-72 06 MAY 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081096 25X1
 ITU SSM TRAINING POSITION CH 363604N 1182842E 25X1
 WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 195-B 25X1
 IDHS CODE: [] EPF CAT : 40 COMIREX NO: []
 KUNMING SSM FIELD POSITION CH 245208N 1025347E 25X1
 WAC NO : 0496 BE/OBJ NO: [] NPIC NO : - 4-B1 25X1
 IDHS CODE: [] EPF CAT : 40 COMIREX NO: [] 25X1

AF ENDR D6518-76 11 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081097 25X1
 IVANKOVO ELECTRONICS R+D FACILITY PROB UR 564350N 0370600E 25X1
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 18-F1 25X1
 IDHS CODE: [] EPF CAT : 25E COMIREX NO: []

AF ENDR D6519-1-75 15 APR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081098 25X1
 MOSKVA SCIENTIFIC RESEARCH INST MACHINE BLDG UR 555130N 0373630E 25X1
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 45-B2 25X1
 IDHS CODE: [] EPF CAT : 65A COMIREX NO: [] 25X1

AF ENDR E1517-1-76 11 FEB 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081099 25X1
 PLESETSK MTC SPACE SITE 27 UR 625423N 0404715E 25X1
 WAC NO : 0102 BE/OBJ NO: [] NPIC NO : - 27-X 25X1
 IDHS CODE: [] EPF CAT : 40H COMIREX NO: [] 25X1

AF ENDR E4505-77 15 MAR 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081100 25X1
 PALATKI COMMAND CONTROL XMTR FAC BKR HARD U/I UR 544350N 0352245E 25X1
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 18

1903

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 25D COMIREX NO: []
AF ENDR E4510-1-74 06 APR 77 [] SEC CLASS: 13 MSN: 1P ACCN: S081101
PENZA COMMAND CONTROL RADCOM XMTR STA HARD UR 532124N 0451814E
WAC NO : 0166 BE/OBJ NO: [] NPIC NO : - 17-0
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

DIA IIM 5B3-57379-77 09 AUG 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S081101 25X1

URENGOY AIRFIELD U/I POL STORAGE CAPACITY UR 660430N 0763405E
WAC NO : 0094 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 05I COMIREX NO:

25X1

DIA IIM 5B3-57380-77 AUG 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081101 25X1

PRAVAYA KHETTA/PANGODY AIRFIELD UR 655100N 0742940E
WAC NO : 0094 BE/OBJ NO: [] NPIC NO : - 10
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

25X1

DIA IIM 5B3-57382-77 10 AUG 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081101 25X1

MIFOL AIRFIELD AL 403631N 0192535E
WAC NO : 0322 BE/OBJ NO: [] NPIC NO : - 101-G
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

25X1

DIA IIM 5B3-57392-77 10 AUG 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081101 25X1

TARKO SALE AIRFIELD UR 645559N 0774700E
WAC NO : 0095 BE/OBJ NO: [] NPIC NO : - 8
IDHS CODE: [] EPF CAT : 05A COMIREX NO:

25X1

25X1

DIA IIM 5B3-57385-77 12 AUG 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081101 25X1

MAYMANAK AIRFIELD POL STORAGE CAPACITY UR 390819N 0650955E
WAC NO : 0337 BE/OBJ NO: [] NPIC NO : - 25
IDHS CODE: [] EPF CAT : 05I COMIREX NO:

25X1

25X1

1904
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Redacted]

25X1

DIA IIM 5B3-57420-77 17 AUG 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: S081110 25X1

IGRIM AIRFIELD POL STORAGE CAPACITY UR 631140N 0642700E
WAC NO : 0100 BE/OBJ NO: [Redacted] NPIC NO : - 12
IDHS CODE: [Redacted] EPF CAT : 05I COMIREX NO:

25X1

25X1

25X1

[Redacted]

DIA IIM 5B1-57346-77 AUG 77 [Redacted] SEC CLASS: 14D MSN: [Redacted] 13P ACCN: S081113 25X1

KYAKHTA ARMY BARRACKS AL1/HQ TK DIV/SA-6 REGT UR 502055N 1062621E
WAC NO : 0201 BE/OBJ NO: [Redacted] NPIC NO : - 5-B
IDHS CODE: [Redacted] EPF CAT : 35A COMIREX NO: [Redacted]

25X1

25X1

DIA IIM 5B1-57347-77 AUG 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 4P ACCN: S081114 25X1

TBILISI MILITARY DISTRICT HEADQUARTERS UR 414315N 0444444E
WAC NO : 0325 BE/OBJ NO: [Redacted] NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 35A COMIREX NO:

25X1

1905
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-57354-77 01 AUG 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: S0811125X1

DNEPROPETROVSK ENGINEER DPO NZHM-56 BRG UNIT UR 481430N 0344545E
WAC NO : 0234 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B1-57355-77 01 AUG 77 [] SEC CLASS: 14B MSN: [] 8P ACCN: S0811125X1

MELENKI AMMUNITION DEPOT DA1 UR 552600N 0413301E
WAC NO : [] BE/OBJ NO: [] NPIC NO : - 46
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B1-57368-77 03 AUG 77 [] SEC CLASS: 14B MSN: [] 5P ACCN: S0811125X1

LYUTOVO ENGINEER DEPOT UR 572912N 0400740E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B1-57372-77 04 AUG 77 [] SEC CLASS: 14B MSN: [] 7P ACCN: S0811225X1

VOLOGDA RAILROAD CONSTRUCTION ENGINEER BKS UR 591405N 0394020E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 66-L
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

25X1

1906
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Redacted]

25X1

[Redacted]

25X1

DIA IIM	5B1-57381-77	AUG 77	[Redacted]	SEC CLASS: 14B	MSN: [Redacted]	1P	ACCN: S081124	25X1 25X1
	STRASICE ARMY BARRACKS 1			CZ	494400N 0134550E			
	WAC NO : 0231		BE/OBJ NO: [Redacted]		NPIC NO : - 202-A2			25X1 25X1
	IDHS CODE: [Redacted]		EPF CAT : 35A		COMIREX NO: [Redacted]			
DIA IIM	5B3-57471-77	31 AUG 77	[Redacted]	SEC CLASS: 13	MSN: [Redacted]	3P	ACCN: S081125	25X1 25X1
	KIROVSK AIRFIELD POL STORAGE CAPACITY			UR	673438N 0333425E			
	WAC NO : 0091		BE/OBJ NO: [Redacted]		NPIC NO : - 10			25X1 25X1
	IDHS CODE: [Redacted]		EPF CAT : 05I		COMIREX NO: [Redacted]			25X1
DIA IIM	5B1-57390-77	AUG 77	[Redacted]	SEC CLASS: 14B	MSN: [Redacted]	1P	ACCN: S081126	25X1 25X1
	ZAGREB ARMY BARRACKS NE 3			YO	454930N 0160137E			
	WAC NO : 0252		BE/OBJ NO: [Redacted]		NPIC NO : - 74-63			25X1 25X1
	IDHS CODE: [Redacted]		EPF CAT : 35A		COMIREX NO: [Redacted]			25X1

[Redacted]

25X1

1907
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B1-57399-77 11 AUG 77 [] SEC CLASS: 14B MSN: [] 3P ACCN: S0811225X1
 KHARKOV ENGINEER DEPOT DE1 CIV STGE FAC PROB UR 495810N 0361614E
 WAC NO : 0234 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 35F COMIREX NO:
 KHARKOV ENGINEER DEPOT DE1 CIV STGE FAC PROB UR 495810N 0361614E
 WAC NO : 0234 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: EPF CAT : 80B COMIREX NO:

DIA IIM 5B3-57427-77 19 AUG 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S0811225X1
 VENTSPILS AIRFIELD SOUTH POL STORAGE CAPACITY UR 572149N 0213330E
 WAC NO : 0152 BE/OBJ NO: [] NPIC NO : - 8-I 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: 25X1

NPIC MIPIR CA0052-77 12 AUG 77 [] SEC CLASS: 14 MSN: 138P ACCN: S081125X1
 MIPIR 048/052
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 15A COMIREX NO:
 NPIC MIPIR CA0057-77 19 AUG 77 [] SEC CLASS: 14 MSN: 147P ACCN: S0811325X1
 MIPIR 053/057
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 15A COMIREX NO:

25X1

25X1

1908
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

25X1

NPIC SR SR057-77 AUG 77 [] SEC CLASS: 14B MSN: [] 5P ACCN: S0811325X1

OREL MILITARY INSTALLATION COMMO TRNG FACILS UR 525859N 0360316E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 65-B4 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: 25X1

URALSK ARMY BARRACKS COMMUNICATIONS TRNG FACIS UR 511320N 0512149E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 17-A2 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

ELECTRONICS, COMMUNICATIONS TRAINING FACILS UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

COMMUNICATIONS TRAINING FACILITIES WERE IDENTIFIED FOR THE FIRST TIME AT THE OREL MILITARY INSTALLATION IN THE MOSCOW MILITARY DISTRICT, USSR, AND AT THE URALSK ARMY BARRACKS IN THE CENTRAL ASIAN MILITARY DISTRICT, USSR, [] RESPECTIVELY. TA-EL-01 (PREVIOUSLY DESIGNATED AS UNIDENTIFIED STOWED ANTENNA VAN TRUCKS) WERE ALSO OBSERVED AT OREL AND URALSK, WHICH REPRESENTS THE FIRST TIME TA-EL-01 HAVE BEEN IDENTIFIED AT TRAINING FACILITIES. 25X1

CIA BIIR RCS13-0018-77 AUG 77 [] SEC CLASS: 13 MSN: [] 9P ACCN: S0811425X15X1

ANYANG IRON PLANT SHUIYEH CH . 360838N 1140718E

1910
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 1-C	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
ANYANG IRON PLANT SHUIYEH 2		CH 360830N 1140552E	25X1
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 1-C1	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
ANYANG IRON PLANT SHUIYEH 3		CH 360810N 1140610E	25X1
WAC NO : 0382	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
CHIYUAN IRON PLANT		CH 350510N 1123320E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
CHIAOTSO IRON PLANT EAST		CH 351504N 1131508E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
MINGCHIANG IRON PLANT		CH 322815N 1140225E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 18-C	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
MINGCHIANG IRON PLANT 2		CH 322800N 1140245E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
PAISHAN IRON PLANT		CH 351230N 1130600E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
CHUEHSHAN IRON PLANT		CH 324900N 1140215E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
HSIAOTIEN IRON PLANT		CH 341037N 1123229E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 111-A1	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
INDUSTRY, IRON + STEEL PLANTS HONANSHENG		CH	25X1
WAC NO :	BE/OBJ NO:	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
LOYANG STEEL PLANT		CH 343645N 1122900E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 17-F	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
ANYANG IRON + STEEL PLANT		CH 360659N 1141708E	25X1
WAC NO : 0382	BE/OBJ NO: []	NPIC NO : - 1-B	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
YUNYANG IRON PLANT		CH 332600N 1124440E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 117-B1	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
SHANHSIEN IRON PLANT		CH 344610N 1111030E	25X1
WAC NO : 0385	BE/OBJ NO: []	NPIC NO : - 25-C3	25X1

1911
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	
YUCHUNG IRON PLANT	BE/OBJ NO: []	CH 360920N 1140420E	
WAC NO : 0382	EPF CAT : 30C	NPIC NO :	
IDHS CODE: []		COMIREX NO:	
LINHSIEN IRON PLANT	BE/OBJ NO: []	CH 360810N 1135040E	
WAC NO : 0382	EPF CAT : 30C	NPIC NO : - 108-A1	
IDHS CODE: []		COMIREX NO:	
LUSHAN IRON PLANT	BE/OBJ NO: []	CH 334540N 1125325E	
WAC NO : 0385	EPF CAT : 30C	NPIC NO : - 66-A	
IDHS CODE: []		COMIREX NO:	
MIENCHIH IRON PLANT	BE/OBJ NO: []	CH 344530N 1114500E	
WAC NO : 0385	EPF CAT : 30C	NPIC NO :	
IDHS CODE: []		COMIREX NO:	

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

IN LATE 1976 THERE WERE 18 PLANTS ENGAGED IN THE PRODUCTION OF IRON, STEEL, AND ROLLED STEEL PRODUCTS IN HONAN PROVINCE. SIXTEEN ARE PIG IRON PLANTS, ONE IS AN IRON AND STEEL PLANT, AND ONE IS A STEEL PLANT. MOST OF THE PLANTS ARE IN THE NORTHERN HALF OF THE PROVINCE.

THERE ARE TWO MEDIUM AND 32 SMALL BLAST FURNACES AT THE PLANTS THAT ARE CAPABLE OF PRODUCING AN ESTIMATED 3,340 METRIC TONS OF PIG IRON PER DAY. THREE STEEL FURNACE BUILDINGS ARE IN USE IN THE PROVINCE. ONE CONTAINS BASIC OXYGEN FURNACES (BOF), ONE CONTAINS SIDE-BLOWN CONVERTERS, AND ONE POSSIBLY CONTAINS ELECTRIC FURNACES. IN ADDITION, THERE ARE FOUR ROLLING MILLS WITH A TOTAL ROOF COVER OF APPROXIMATELY 62, 530 SQUARE METERS.

CONSTRUCTION WAS EVIDENT AT THREE PLANTS. A POSSIBLE ROLLING MILL, AN ORE HANDLING FACILITY, AND AN ADDITION TO A BOF BUILDING WERE IN VARIOUS STAGES OF CONSTRUCTION. NINE OF THE 18 PLANTS WERE OPERATING WHEN SEEN ON THE LATEST AVAILABLE PHOTOGRAPHY.

THIS REPORT SUMMARIZES THE PRODUCTION FACILITIES AT EACH PLANT AND PROVIDES GRAPHICS OF SELECTED PLANTS AS WELL AS A MAP SHOWING PLANT LOCATIONS. THE CUTOFF DATE FOR INFORMATION IN THIS REPORT IS MARCH 1977.

25X1

DIA BIIR RDA05-0005-77

AUG 77

SEC CLASS: 14B MSN: []

18P

ACCN: S081125X1

POLTAVA AIRFIELD
WAC NO : 0234

BE/OBJ NO: []

UR 493740N 0342923E
NPIC NO : - 31

25X1

1912
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []
POLTAVA AIRFIELD GCA SITE		UR 493737N 0342926E
WAC NO : 0234	BE/OBJ NO: []	NPIC NO :
IDHS CODE: []	EPF CAT : 25H	COMIREX NO:
POLTAVA ASM SUPPORT FACILITY		UR 493723N 0343053E
WAC NO : 0234	BE/OBJ NO: []	NPIC NO : - 31-D1
IDHS CODE: []	EPF CAT : 001	COMIREX NO: []

25X1
25X1
25X1
25X1
25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF POLTAVA AIRFIELD AND RELATED FACILITIES. THE AIRFIELD IS A BOMBER BASE IN EUROPEAN U.S.S.R. AND SUPPORTS TU-16/BADGER AND BACKFIRE AIRCRAFT. SINCE THE BASIC REPORT, THE FOLLOWING CHANGES TO THE AIRFIELD HAVE BEEN OBSERVED: THE AIRCRAFT DISPERSAL AREA NORTHWEST OF THE RP AND BUILDINGS UNDER CONSTRUCTION IN 1971 WERE COMPLETED; NEW BUILDINGS IN POLTAVA ASM SUPPORT FACILITY AND THE AIRCRAFT MAINTENANCE AREA WERE CONSTRUCTED. FEATURES DESCRIBED IN THIS REPORT INCLUDE A 3,024-METER CONCRETE RUNWAY (A 2,530-METER SECTION IS 89 METERS WIDE AND A 494-METER SECTION IS 60 METERS WIDE), A 2,438M X 91M AUXILIARY SOD RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATIONAL/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED CAPACITY OF 10,280,110 LITRES, AIRCRAFT MAINTENANCE, ACCOMMODATIONS, STORAGE, AND TRANSPORTATION. AOB [] WAS 9 BACKFIRE B, 39 TU-16/BADGER, 1 IL-14/CRATE, AND 1 AN-2/COLT.

25X1

DIA IIM 5B3-57426-77 19 AUG 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S081143

25X1

MESKUIICIAI AIRFIELD		UR 560415N 0233320E
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 171-B
IDHS CODE: []	EPF CAT : 05A	COMIREX NO:

25X1
25X1

DIA IIM 5B3-57313-77 AUG 77 [] SEC CLASS: 14 [] 14P ACCN: S081144

25X15X1

BRATISLAVA PORT COMPLEX		CZ 480822N 0170805E
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 12-H3
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []

25X1
25X1
25X1

1913
TOP SECRET CHESS RUFF

25X1

25X1

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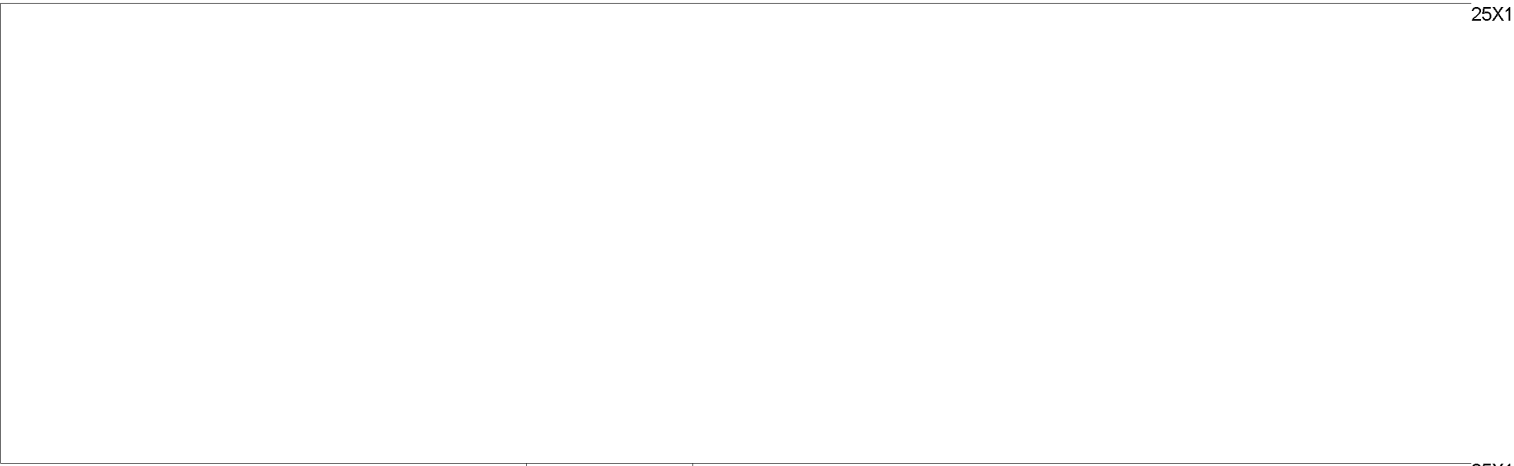
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TOP SECRET CHESS RUFF



25X1



25X1

CIA INFR TSD116-77 09 JUN 77 SEC CLASS: 13 MSN: 5P ACCN: S08118^{25X1}

KOMSOMOLSK AIRFRAME PLANT 126 FITTER B/C PROD UR 503518N 1370525E
WAC NO : 0204 BE/OBJ NO: NPIC NO : - 13-A
IDHS CODE: EPF CAT : 056 COMIREX NO:

25X1
225X1

FITTER AIRCRAFT HAVE BEEN PRODUCED AT KOMSOMOLSK AIRFRAME PLANT 126 AND ARE NORMALLY OBSERVED ONLY IN THE SOUTHEAST PLANT AREA. THE PLANT IS PRESENTLY PRODUCING FITTER D, WHICH INCORPORATES AN UPGRADED AVIONICS PACKAGE.

ALL AVAILABLE PHOTOGRAPHY OF KOMSOMOLSK AIRFRAME PLANT 126 FROM 1969 THROUGH 1973 WAS REVIEWED IN AN ATTEMPT TO DEFINE THE TIMING AND DURATION OF THE FITTER B PRODUCTION RUN AND THE BEGINNING OF FITTER C SERIES PRODUCTION. THE RESULTS INDICATE THAT SERIES PRODUCTION OF THE FITTER B MOST LIKELY STARTED IN LATE 1969 AND ENDED IN EARLY TO MID-1973. FITTER C APPEARED TO BE IN FULL PRODUCTION BY SEPTEMBER 1973. PHOTOGRAPHIC EVIDENCE DOES NOT SUPPORT THE BEGINNING OF FITTER C PRODUCTION EARLIER THAN LATE 1972. A TYPICAL FITTER ORDER-OF-BATTLE DERIVED FROM RECENT GOOD-QUALITY PHOTOGRAPHY OF SELECTED REPAIR, TRAINING AND OPERATIONAL BASES IS INCLUDED.*



25X1

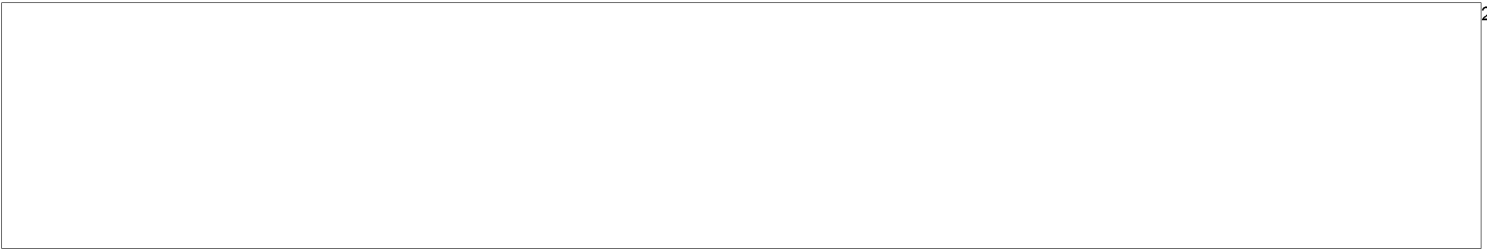
1920
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1



25X1

CIA INFR TSD124-77 24 JUN 77 [REDACTED] SEC CLASS: 13 MSN: 7P ACCN: S081183 25X1

SHIPS, NAVAL SHIP PROD 10 DEC 76 - 8 APR 77 CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

CIA INFR TSD134-77 30 JUN 77 [REDACTED] SEC CLASS: 13 MSN: 1P ACCN: S081184 25X1

HAITANTAO CRUISE MISSILE CD SITE SEARCH CH 252921N 1194744E
WAC NO : 0499 BE/OBJ NO: NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 40K COMIREX NO:

CIA INFR IS10034K-77 JUL 77 [REDACTED] SEC CLASS: 13 MSN: 5P ACCN: S081185 25X1

BERBERA PORT FACILITIES AFDM FLOATING DRYDOCK SO 102630N 0450030E
WAC NO : 0790 BE/OBJ NO: [REDACTED] NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 75I COMIREX NO: [REDACTED]

A LARGE FLOATING DRYDOCK WAS CONSTRUCTED AT THE SOVIET BLACK SEA SHIPYARD IN KHERSON FOR THE SOMALIA GOVERNMENT. IT WAS TOWED TO BERBERA, SOMALIA VIA THE SUEZ CANAL AND WAS FIRST OBSERVED AT BERBERA ON SATELLITE PHOTOGRAPHY [REDACTED] THE DOCK HAS A DISPLACEMENT OF 8,500 TONS AND CAN ACCOMMODATE SHIPS UP TO CRUISER SIZE. [REDACTED] THE DOCK WAS MOORED IN THE INNER HARBOR ACROSS FROM THE MAIN DEEP WATER QUAY. THIS HAS BECOME THE NORMAL BERTHING POSITION FOR THE DOCK. [REDACTED]

25X1

25X1

25X1

CIA INFR IS10035K-77 JUL 77 [REDACTED] SEC CLASS: 13 MSN: 11P ACCN: S081186 25X1

BERBERA HF RADIO COMMUNICATIONS RECEIVER STA SO 102405N 0450200E

1921
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0790	BE/OBJ NO: []	NPIC NO : - 1-A3
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
BERBERA HF RADIO COMMUNICATIONS XMTR STATION		SO 102725N 0450300E
WAC NO : 0790	BE/OBJ NO: []	NPIC NO : - 1-A4
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []

25X1
25X1
25X1
25X1

THE SOVIETS HAVE CONSTRUCTED A HIGH-FREQUENCY RADIO COMMUNICATIONS FACILITY IN BERBERA, SOMALIA. THIS FACILITY AND CONSISTED OF SEPARATE TRANSMITTER AND RECEIVER SITES ABOUT THREE MILES APART BUT CONNECTED BY BURIED CABLE. THE ELECTRONIC COMPONENTS OF THIS FACILITY ARE MOBILE, CONSISTING OF FIELD DEPLOYABLE VAN TRUCKS, TRAILERS, WHEELED GENERATORS AND SUPPORT EQUIPMENT.

25X1

CIA INFR LFD187-77 27 MAY 77 [] SEC CLASS: 13 MSN: 4P ACCN: S0811825X1

MILITARY, 43RD ARMY WUHAN MILITARY REGION	CH
WAC NO :	BE/OBJ NO: []
IDHS CODE:	EPF CAT : 35
	NPIC NO :
	COMIREX NO:

THIS REPORT IS AN ANALYSIS OF THE 43RD ARMY. A SUMMARY AND LIST OF THE INSTALLATIONS AND UNITS IN THE ARMY ARE INCLUDED. THE 43RD ARMY, WHICH IS LOCATED IN NORTHWESTERN WU-HAN MR, IS MISSING THREE UNITS AND IS SHORT OF EQUIPMENT. THE ARMY HEADQUARTERS AND ITS SUPPORT ELEMENTS ARE LOCATED IN THE VICINITY OF LO-YANG, APPROXIMATELY 480 KILOMETERS NORTH-NORTHWEST OF WU-HAN. THE ARMY HAS THREE INFANTRY DIVISIONS: THE 127TH LOCATED WEST OF LO-YANG; THE 128TH LOCATED EAST OF LO-YANG; AND THE 129TH CENTERED AROUND NAN-YANG. THERE ARE NO TANK UNITS IN THIS ARMY.

DESCRIPTIONS ARE OF THE MAJOR UNITS OF THE 43RD ARMY ARE INCLUDED.*

CIA INFR LFD234-77 13 JUL 77 [] SEC CLASS: 24 MSN: 3P ACCN: S0811825X1

MILITARY, 47TH ARMY LANCHOU MILITARY REGION	CH
WAC NO :	BE/OBJ NO: []
IDHS CODE:	EPF CAT : 35
	NPIC NO :
	COMIREX NO:

THIS REPORT PRESENTS AN ANALYSIS OF THE 47TH ARMY IN THE LAN-CHOU MILITARY REGION. IT INCLUDES A DISCUSSION OF THE ARMY AND A TABLE OF SUBORDINATE UNITS. A DESCRIPTION OF THE MAJOR UNITS IS INCLUDED.*

CIA INFR IS10132K-77 03 NOV 77 [] SEC CLASS: 13 MSN: 3P ACCN: S081189 25X1

MILITARY, ARMORED VEHICLE PLANTS DEVELOPMENTS	CH
WAC NO :	BE/OBJ NO: []
IDHS CODE:	EPF CAT : 35G
	NPIC NO :
	COMIREX NO:

THE CHINESE MAY NOW BE PLACING A HIGHER PRIORITY ON THE PRODUCTION OF ARMORED VEHICLES. NEW CONSTRUCTION ACTIVITY AND INCREASED NUMBERS OF TANKS HAVE BEEN OBSERVED AT PAO-TOU ARMORED VEHICLE PLANT

1922
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

617, CHUNG-CHING ARMORED VEHICLE PLANT 256, AND HA-ERH-PIN TANK PLANT 674. IN ADDITION THE CHINESE MAY ALSO BE IN THE PROCESS OF UPGRADING THEIR ARMORED VEHICLES. A SOVIET T-62 TANK, OR A COPY OF ONE, WAS SEEN IN THE R+D SECTION OF THE HA-ERH-PIN PLANT AND THREE SU-76 ASSAULT GUNS WERE SEEN AT THE R+D SECTION OF CHANG-HSIN-TIEN ARMORED VEHICLE PLANT 618.

CIA INFR LFD251-77 30 JUN 77 [] SEC CLASS: 24 MSN: 3P ACCN: S081190 25X1

MILITARY, 20TH ARMY WUHAN MILITARY REGION CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT IS AN ANALYSIS OF THE 20TH ARMY, WU-HAN MILITARY REGION. IT INCLUDES A DESCRIPTIVE SUMMARY OF THE INSTALLATIONS AND UNITS AND A LIST OF THOSE INSTALLATIONS.*

CIA INFR LFD213-77 06 JUN 77 [] SEC CLASS: 24 MSN: 3P ACCN: S081191 25X1

MILITARY, 65TH ARMY PEICHING MILITARY REGION CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT IS AN ANALYSIS OF THE 65TH ARMY, PEI-CHING MILITARY REGION. IT INCLUDES A SUMMARY OF THE INSTALLATIONS AND UNITS AND A TABLE OF UNITS SUBORDINATE TO THE ARMY.*

CIA INFR LFD247-77 27 JUN 77 [] SEC CLASS: 24 MSN: 19P ACCN: S081192 25X1

MILITARY, 69TH ARMY PEICHING MILITARY REGION CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 35 COMIREX NO:

THIS REPORT IS AN ANALYSIS OF THE 69TH ARMY, PEICHING MILITARY REGION. IT INCLUDES A SUMMARY OF THE INSTALLATIONS AND UNITS, A TABLE OF UNITS SUBORDINATE TO THE ARMY, AND OIA INSTALLATION BRIEFS FOR EACH INSTALLATION.*

CIA INFR MSD082A-77 31 MAY 77 [] SEC CLASS: 13 MSN: 17P ACCN: S081193 25X1

EMBA MTC COMPLEX C PAD 1 CANISTER/MISSILE TEL UR 483103N 0580207E
 WAC NO : 0236 BE/OBJ NO: NPIC NO : - 22-E
 IDHS CODE: EPF CAT : 40E COMIREX NO:
 MISSILES, TEL/CANISTER DEFENSIVE SYSTEM UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40I COMIREX NO:
 ELECTRONICS, EM-EL-1 PLANAR RADAR UR
 WAC NO : BE/OBJ NO: NPIC NO :

25X1

25X1

25X1

1923

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE:	EPF CAT : 25A	COMIREX NO:
ELECTRONICS, EM-EL-2 PLANAR PHASED ARRAY MBL	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25A	COMIREX NO:
ELECTRONICS, EM-EL-3 RADAR	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25A	COMIREX NO:

THIS MEMORANDUM CONTAINS THE HISTORY AND BRIEF DESCRIPTION OF THE C1 TEL AND THE EM-EL-01, EM-EL-02 AND EM-EL-03 RADARS WHICH ARE UNDER DEVELOPMENT AT THE EMBA MISSILE TEST CENTER, USSR.

CIA INFR MSD082B-77 03 JUN 77 [] SEC CLASS: 13 MSN: 10P ACCN: S081125X1

ZAGORSK ROCKET ENGINE TEST FACIL TEST STAND 4	UR	562544N 0381055E	
WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 93	25X1
IDHS CODE:	EPF CAT : 40E	COMIREX NO:	25X1
DNEPROPETROVSK MISSILE DPC RKT ENG TEST STAND	UR	482601N 0345828E	
WAC NO : 0234	BE/OBJ NO:	NPIC NO : - 7-C	25X1
IDHS CODE:	EPF CAT : 40E	COMIREX NO:	25X1

TWO SMALL, VERTICAL TEST STANDS WITHIN THE USSR WERE EXAMINED IN AN ATTEMPT TO DETERMINE THEIR FUNCTIONS IN THE SOVIET ROCKET ENGINE TEST PROGRAM. ONE OF THE TEST STANDS THAT WAS STUDIED WAS TEST STAND 4 AT THE ZAGORSK ROCKET ENGINE TEST FACILITY (RETF). IT WAS DETERMINED THAT TEST STAND 4 IS CAPABLE OF TESTING SMALL ENGINES, SMALL STAGES, AND IS POSSIBLY CAPABLE OF COLD FLOW TESTING OF LARGE ENGINES. A NEW TEST PROGRAM WAS STARTED AT TEST STAND 4 ABOUT 1971, HOWEVER, THE EXACT NATURE OF THIS PROGRAM COULD NOT BE DETERMINED. THE OTHER TEST STAND THAT WAS STUDIED WAS TEST STAND 3 AT THE DNEPROPETROVSK RETF. THIS STAND IS CAPABLE OF TESTING SMALL ENGINES AT VARIOUS, SIMULATED ALTITUDES.

CIA INFR MSD085-77 31 MAY 77 [] SEC CLASS: 13 MSN: 6P ACCN: S081125X1

BISTRITSA COMSAT STATION INTERSPUTNIK IDENT	BU	422920N 0232710E	
WAC NO : 0322	BE/OBJ NO:	NPIC NO : - 85-K2	25X1
IDHS CODE:	EPF CAT : 25C	COMIREX NO:	25X1
TALIANDOROGD COMSAT STATION INTERSPUTNIK	HU	465907N 0173558E	
WAC NO : 0252	BE/OBJ NO:	NPIC NO : - 94	25X1
IDHS CODE:	EPF CAT : 25C	COMIREX NO:	25X1
PAPA ELECTRONICS FACILITY U/I	HU	471745N 0174510E	
WAC NO : 0252	BE/OBJ NO:	NPIC NO : - 41-C	25X1
IDHS CODE:	EPF CAT : 25	COMIREX NO:	25X1
TELEAJEN CHEIA COMSAT STATION INTERSPUTNIK	RO	452730N 0255640E	
WAC NO : 0251	BE/OBJ NO:	NPIC NO : - 273	25X1
IDHS CODE:	EPF CAT : 25C	COMIREX NO:	25X1

1924
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

CIA INFR MSD087-77 01 JUN 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S081196 25X1

MOSKVA AIRCRAFT COMPONENTS PLANT 25 MSL ASSOC UR 554722N 0374250E

WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []

IDHS CODE: [] EPF CAT : 056 COMIREX NO: [] 25X1

MOSKVA AIRCRAFT COMPONENTS PLANT 25 MSL ASSOC UR 554722N 0374250E

WAC NO : 0167 BE/OBJ NO: [] NPIC NO : []

IDHS CODE: [] EPF CAT : 40E COMIREX NO: [] 25X1

A THIRD ELEMENT OF THE V. N. CHELOMEY MISSILE DESIGN BUREAU HAS BEEN NEWLY IDENTIFIED IN THE MOSCOW AREA. THIS FACILITY IS KNOWN AS AIRCRAFT COMPONENTS PLANT 25. THE TWO OTHER FACILITIES KNOWN TO BE ASSOCIATED WITH THE V. N. CHELOMEY DESIGN BUREAU ARE THE MOSCOW GUIDED MISSILE AND SPACE RESEARCH CENTER REUTOV, AND THE MOSCOW MISSILE PRODUCTION PLANT FILI 23. AIRCRAFT COMPONENTS PLANT 25 WAS FUNCTIONALLY IDENTIFIED AS A PROBABLE DESIGN BUREAU BECAUSE OF THE RELATIVELY HIGH PERCENTAGE OF FLOORSPACE THAT IS DEVOTED TO ENGINEERING/ADMINISTRATION. IT WAS ASSOCIATED WITH V. N. CHELOMEY BECAUSE SEVERAL MISSILE-RELATED ITEMS OF HIS DESIGN HAVE BEEN OBSERVED AT THE PLANT AND BECAUSE OF THE PLANT'S PROXIMITY TO CHELOMEY'S MAIN DESIGN AND PROTOTYPE PRODUCTION FACILITY.

THE EXACT FUNCTIONS OF PLANT 25, AND ITS PLACE IN THE CHELOMEY DESIGN PROCESS COULD NOT BE DETERMINED FROM PHOTOGRAPHY. HOWEVER, THE APPEARANCE OF SEVERAL MISSILE-RELATED ITEMS AT BOTH PLANT 25 AND THE REUTOV FACILITY, SUGGESTS A CLOSE FUNCTIONAL RELATIONSHIP BETWEEN THE TWO.

CIA INFR MSD098-77 25 MAY 77 [] SEC CLASS: 24 MSN: [] 2P ACCN: S081197 25X1

WIECHENG MISSILE IMPACT AREA SEARCH CH 2743 N 10122 E

WAC NO : 0496 BE/OBJ NO: [] NPIC NO : []

IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

HSICHANG MISSILE IMPACT AREA SEARCH CH 2553 N 10318 E

WAC NO : 0496 BE/OBJ NO: [] NPIC NO : []

IDHS CODE: [] EPF CAT : 40 COMIREX NO: []

CIA INFR MSD095-77 09 JUN 77 [] SEC CLASS: 24 MSN: [] 1P ACCN: S081198 25X1

LASA COMSAT STATION SEARCH CH 2938 N 09105 E

WAC NO : 0437 BE/OBJ NO: [] NPIC NO : []

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

CIA INFR MSD102-77 27 JUN 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S081199 25X1

SARY SHAGAN MTC COMPLEX B ABM-1 CAN ELEVATION UR 460106N 0722804E

WAC NO : 0245 BE/OBJ NO: [] NPIC NO : [] 50-R

IDHS CODE: [] EPF CAT : 40D COMIREX NO: [] 25X1

CIA INFR MSD106-77 30 JUN 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081200 25X1

1925
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

MISSILES, SS-21 TRANSPORTER-ERECTOR-LAUNCHER
WAC NO : BE/OBJ NO:
IDHS CODE: EPF CAT : 40B

UR
NPIC NO :
COMIREX NO:

CIA INFR IS10022K-77 13 JUL 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 5P

ACCN: S08120125X1

ORENBURG GUIDED MISSILE PLANT 47
WAC NO : 0236 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 40E

UR 514816N 0550737E
NPIC NO : 2-B
COMIREX NO: [REDACTED]

25X1
25X1
25X1

PHOTOGRAPHIC ANALYSIS OF THE FACILITIES AT ORENBURG GUIDED MISSILE PLANT, UTILIZING COVERAGE THROUGH [REDACTED] HAS MADE IT POSSIBLE TO IDENTIFY MANY OF THE PLANT'S PRODUCTS AND TO DETERMINE THE MOST LIKELY BUILDINGS WHERE SPECIFIC PRODUCTS ARE MANUFACTURED.

25X1

THE ORENBURG PLANT PRODUCES ICBM COMPONENTS, CRUISE MISSILES, LA-17 DRONES, AND ANTI-AIRCRAFT ARTILLERY (AAA) FOR THE MILITARY. IT ALSO PRODUCES SMALL BOATS FOR CIVILIAN USE. THE ICBM COMPONENT PRODUCTION INCLUDES SS-11 MOD I PAYLOAD CANISTERS, SS-11 MOD III PAYLOAD CANISTERS, SS-11 MOD III COMPONENT CANISTERS, AND SS-19 PROBABLE SHROUD CRATES. CRUISE MISSILE PRODUCTION INCLUDES THE SS-N-7, THE SS-N-9, AND PROBABLY A NEW CRUISE MISSILE.

THREE OF PLANT 47'S SEVEN MAJOR PRODUCTION/SUPPORT BUILDINGS WERE ASSOCIATED WITH THE PRODUCTION OF ICBM COMPONENTS. IN ADDITION, ONE BUILDING WAS ASSOCIATED EXCLUSIVELY WITH CRUISE MISSILE SUPPORT, ONE WITH THE PRODUCTION OF CRUISE MISSILES/DRONES, ONE WITH THE PRODUCTION OF CRUISE MISSILES/DRONES AND AAA, AND ONE WAS UNIDENTIFIED.

CIA INFR IS10026K-77 15 JUL 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 7P

ACCN: S08120125X1

PETROPALOVSK AMMUNITION/MTR VEH BODY PLT 239
WAC NO : 0163 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 35G

UR 545222N 0691030E
NPIC NO : - 7-A
COMIREX NO: [REDACTED]

25X1
25X1

PETROPALOVSK AMMUNITION/MTR VEH BODY PLT 239
WAC NO : 0163 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 85A

UR 545222N 0691030E
NPIC NO : - 7-A
COMIREX NO: [REDACTED]

25X1
25X1

PETROPALOVSK MOTOR VEHICLE ASSEMBLY PLANT
WAC NO : 0163 BE/OBJ NO: [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 85A

UR 545352N 0690955E
NPIC NO : - 7-A4
COMIREX NO: [REDACTED]

25X1
25X1

THIS MEMO REPORTS ON THE PETROPALOVSK AMMUNITION + MOTOR VEHICLE BODY PLANT 239 AND PETROPALOVSK ASSEMBLY PLANT. SINCE AT LEAST 1967, PLANT 239 HAS BEEN PRODUCING FIVE SIZES OF SHIPPING CANISTERS THAT MAY BE USED TO SHIP SOVIET NAVAL TUBE-LAUNCHED WEAPONS SYSTEMS, SUCH AS TORPEDOES + MINES. THE CANISTERS ARE SIMILAR IN CONFIGURATION + DIAMETER TO SEVERAL CANISTERS WHICH HAVE BEEN OBSERVED AT THE FEODOSIYA NAVAL MISSILE TEST FACILITY. THERE WAS NO EVIDENCE OF MISSILE-RELATED EQUIPMENT PRODUCTION AT THE PETROPALOVSK VEHICLE ASSEMBLY PLANT.

1926
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

CIA INFR IS10024J-77 13 JUL 77 [] SEC CLASS: 24 MSN: [] 4P ACCN: S081203 25X1

SPACE, C-006 ESV SHROUD DIMENSIONS
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1

CIA INFR IS10030K-77 13 JUL 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081204 25X1

MISSILES, SS-1C/KY-3 STABILIZING FINS COMP UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:
MISSILES, KY-3/SS-1C STABILIZING FINS COMP UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

25X1

25X1

CIA INFR ERD105-77 06 JUN 77 [] SEC CLASS: 13 MSN: [] 12P ACCN: S081205 25X1

INDUSTRY, THERMAL POWER PLANTS EXPSN UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30E COMIREX NO:
KAZAN HEAT + THERMAL POWER PLANT EXPANSION UR 554543N 0490728E
WAC NO : 0165 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30E COMIREX NO:
KRAMATORSK HEAT + THERMAL POWER PLANT EXPNSN UR 484449N 0373430E
WAC NO : 0234 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30E COMIREX NO:
NIZHNEKAMSK HEAT + THERMAL POWER PLT EXPSN UR 553639N 0515608E
WAC NO : 0165 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30E COMIREX NO:
KUYBYSHEV HEAT + THERMAL POWER PLANT EXPNSN UR 530450N 0495207E
WAC NO : 0165 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30E COMIREX NO:
PENZA HEAT + THERMAL POWER PLANT UR 531318N 0450123E
WAC NO : 0166 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30E COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

1927
TOP SECRET CHESS RUFF

25X1

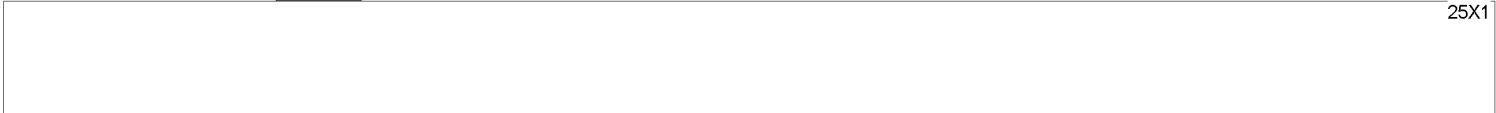


TOP SECRET CHESS RUFF



25X1

LISICHANSK HEAT + THERMAL POWER PLANT 1 EXPSN	UR	485620N 0382730E	
WAC NO : 0234	BE/OBJ NO :	NPIC NO :	25X1
IDHS CODE :	EPF CAT : 30E	COMIREX NO :	25X1
LISICHANSK HEAT + THERMAL POWER PLANT 2	UR	485619N 0382712E	
WAC NO : 0234	BE/OBJ NO :	NPIC NO :	25X1
IDHS CODE :	EPF CAT : 30E	COMIREX NO :	25X1
TOLYATTI HEAT + THERMAL POWER PLANT EXPANSION	UR	533427N 0491447E	
WAC NO : 0165	BE/OBJ NO :	NPIC NO :	25X1
IDHS CODE :	EPF CAT : 30E	COMIREX NO :	25X1



CIA INFR ERD109-77 09 JUN 77 [redacted] SEC CLASS: 13 MSN: 9P ACCN: S0812025X1

INDUSTRY, THERMAL POWER PLANTS FUEL USAGE	UR
WAC NO :	BE/OBJ NO :
IDHS CODE :	EPF CAT : 30E
	NPIC NO :
	COMIREX NO :

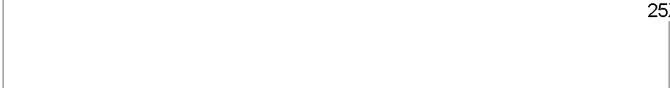
THIS MEMORANDUM REPORTS ON THE TYPE OF FUEL USED AT 28 SOVIET THERMAL POWER PLANTS IN THE VOLGA-URALS REGION. DATA ON 14 ADDITIONAL PLANTS, ANALYZED IN RECENT OIA STUDIES, IS ALSO GIVEN. INFORMATION WAS DERIVED FROM 1971-72, 1973-74, AND 1976-77 IMAGERY.*

CIA INFR IS10029K-77 12 JUL 77 [redacted] SEC CLASS: 13 MSN: 2P ACCN: S0812025X1

MARJ RUHAYYIL AIRFIELD UPGRADING	SY	331654N 0362730E	
WAC NO : 0426	BE/OBJ NO :	NPIC NO : - 122	25X1
IDHS CODE :	EPF CAT : 05A	COMIREX NO :	25X1
MINAKH AIRFIELD UPGRADING	SY	363125N 0370216E	
WAC NO : 0341	BE/OBJ NO :	NPIC NO : - 21	25X1
IDHS CODE :	EPF CAT : 05A	COMIREX NO :	25X1
AS SUWAYDA AIRFIELD WEST U/C	SY	324216N 0362435E	
WAC NO : 0426	BE/OBJ NO :	NPIC NO : - 64-F	25X1
IDHS CODE :	EPF CAT : 05A	COMIREX NO :	25X1

TWO SYRIAN AIRFIELDS, MARJ RUHAYYIL AND MINAKH, ARE BEING UPGRADED AND AS SUWAYDA AIRFIELD WEST IS UNDER CONSTRUCTION. THERE WERE NO SIGNIFICANT CHANGES AT ANY OTHER SYRIAN AIRFIELDS DURING THE FIRST SIX MONTHS OF 1977. NO CONSTRUCTION OR UPGRADING OF AMMUNITION OR POL FACILITIES AT ANY SYRIAN AIRFIELDS WAS SEEN.*

1928
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

CIA INFR IS10032K-77 22 JUL 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 10P

ACCN: 5081209^{25X1}

BULGAN ARMY BARRACKS AL1	WAC NO : 0241	BE/OBJ NO: [REDACTED]	MG 483454N 1032803E
	IDHS CODE: [REDACTED]	EPF CAT : 35A	NPIC NO : 7
MILITARY, SOVIET GROUND FORCES EXPANSION			COMIREX NO: [REDACTED]
	WAC NO :	BE/OBJ NO:	MG
	IDHS CODE:	EPF CAT : 35	NPIC NO :
MANDALGOVI ARMY BARRACKS AL1			COMIREX NO:
	WAC NO : 0286	BE/OBJ NO:	MG 4545 N 10612 E
	IDHS CODE: [REDACTED]	EPF CAT : 35A	NPIC NO :
ARVAYHEER ARMY BARRACKS AL1			COMIREX NO:
	WAC NO : 0286	BE/OBJ NO: [REDACTED]	MG 462200N 1024800E
	IDHS CODE: [REDACTED]	EPF CAT : 35A	NPIC NO : 6-A1
			COMIREX NO: [REDACTED]

25X1
25X125X1
25X1
25X1

THE SOVIET UNION HAS BEEN EXPANDING ITS GROUND FORCE COMMITMENT IN MONGOLIA DURING THE PAST TWO YEARS. OIA BELIEVES THAT THIS EXPANSION CONSISTS OF ONE ACTIVE TANK DIVISION (TD) AND STORAGE FACILITIES CONTAINING THE TRACKED EQUIPMENT FOR THREE MOTORIZED RIFLE DIVISIONS (MRDS).

THE SOVIET UNION BEGAN TO DEPLOY ACTIVE GROUND FORCE UNITS TO MONGOLIA IN LATE 1969. BY 1971 THEY HAD DEPLOYED ONE TD, ONE MRD AND SEVERAL SMALLER UNITS. NO CHANGE IN THE SIZE OF THIS FORCE WAS OBSERVED UNTIL THE FALL OF 1975. SINCE THIS TIME NEW SOVIET INSTALLATIONS AT THREE SEPARATE LOCATIONS IN MONGOLIA HAVE BEEN IDENTIFIED: MANDAL GOBI, BULGAN, AND ARBAY HEERE.

THIS PAPER IS AN ANALYSIS OF THESE NEW INSTALLATIONS AND THE UNITS LOCATED IN THEM.*

CIA INFR IS10048K-77 02 AUG 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 13P

ACCN: 5081210^{25X1}

MILITARY, SYRIAN TROOP DEPLOYMENT	WAC NO :	BE/OBJ NO:	LE
	IDHS CODE:	EPF CAT : 35	NPIC NO :
			COMIREX NO:

BETWEEN APRIL AND JUNE 1977 THE SYRIANS ROTATED THEIR UNITS IN LEBANON, REPLACING THE SIX BRIGADES THAT ENTERED THE COUNTRY IN 1976 WITH SIX BRIGADES FROM SYRIA. THIS INDICATES THAT THE SYRIANS HAVE NO INTENTION OF ENDING THEIR MILITARY INVOLVEMENT IN LEBANON IN THE IMMEDIATE FUTURE, EVEN THOUGH THIS ROTATION HAS CONSIDERABLY WEAKENED SYRIAN DEFENSES IN THE GOLAN HEIGHTS AREA.

CIA INFR IS10041J-77 27 JUL 77 [REDACTED] SEC CLASS: 24 MSN: [REDACTED] 5P

ACCN: 5081211^{25X1}

MILITARY, ARMORED DIVISIONS WUHAN MIL REGION	WAC NO :	BE/OBJ NO:	CH
	IDHS CODE:	EPF CAT : 35	NPIC NO :
			COMIREX NO:

IN MARCH 1973 AN EXTENSIVE CONSTRUCTION PROGRAM WAS UNDERTAKEN IN THE WU-HAN MILITARY REGION TO BUILD NEW INSTALLATIONS FOR ARMORED UNITS AND TO EXPAND SOME OLDER ONES. AS A RESULT THERE ARE NOW TWO ARMORED

25X1

1929
TOP SECRET CHESS RUFF



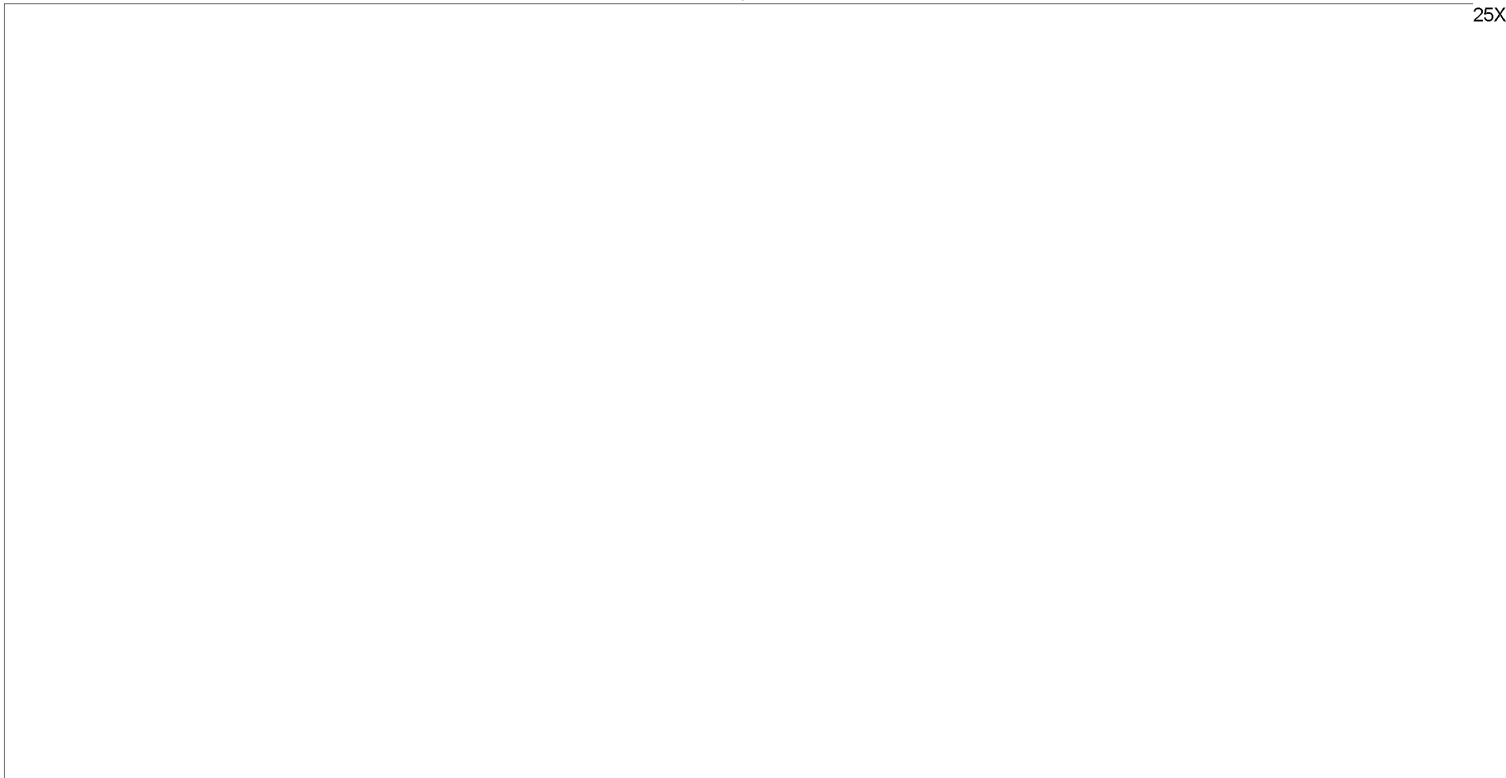
TOP SECRET CHESS RUFF



25X1

DIVISIONS WHERE PRIOR TO 1973 THERE WAS ONLY ONE.

AN ARTILLERY REGIMENT WITH A TO+E IDENTICAL TO AN ARMY-LEVEL ARTILLERY REGIMENT IS LOCATED IN THE MIDST OF THE TWO ARMORED DIVISIONS AND THE NEARBY 2ND ARTILLERY DIVISION. THE LOCATION AND CONSTRUCTION DATE OF THE INSTALLATION HOUSING THIS REGIMENT SUGGEST THAT THE REGIMENT MAY BE RELATED TO THE THREE DIVISIONS.



25X1

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25X1

1930
TOP SECRET CHESS RUFF



Page Denied

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TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B3-57428-77 23 AUG 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: S081229 25X1

MOSKVA MACHINE + INSTRUMENT PLANT KALIBR UR 554815N 0373750E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 30C COMIREX NO:

25X1
25X1

THIS REPORT IS A PHOTO-DERIVED DETAILED FUNCTIONALIZATION OF THE MOSKVA MACHINE AND INSTRUMENT PLANT KALIBR. IT INCLUDES A DESCRIPTION, DIMENSIONS, ROOF COVER, AND NUMBER OF STORIES FOR ALL BUILDINGS WITHIN THE PLANT AREA.

THE PLANT INCLUDES A TOTAL ROOF COVER OF 856,167 SQ FT WHICH COMPRISES 556,961 SQ FT OF PRODUCTION BUILDINGS, 137,492 SQ FT OF R+D, AND 161,714 SQ FT OF SUPPORT.*

DIA IIM 5B3-57432-77 24 AUG 77 [] SEC CLASS: 13 MSN: [] 7P ACCN: S081230 25X1

MOSKVA MACHINE TOOL PLANT STANKOAGGREGAT UR 554347N 0374419E
WAC NO : 0167 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 30C COMIREX NO:

25X1
25X1

THIS IS AN IMAGERY-DERIVED DETAILED FUNCTIONALIZATION OF THE MOSKVA MACHINE TOOL PLANT STANKOAGGREGAT. IT INCLUDES THE FUNCTION, DIMENSIONS, NUMBER OF FLOORS, AND ROOF COVER FOR ALL THE BUILDINGS WITHIN THE PLANT AREA.

THE INSTALLATION INCLUDES A TOTAL ROOF COVER OF 1,579,674 SQ FT COMPRISING 907,915 SQ OF PRODUCTION BUILDINGS, 193,574 SQ FT OF R+D, AND 478,185 SQ FT OF SUPPORT BUILDINGS.*

DIA IIM 5B3-57443-77 24 AUG 77 [] SEC CLASS: 14B MSN: [] 5P ACCN: S081231 25X1

MELITOPOL MACHINE TOOL PLANT 23 OKT UR 465013N 0352257E
WAC NO : 0249 BE/OBJ NO: [] NPIC NO :
IDHS CODE: [] EPF CAT : 30C COMIREX NO:

25X1
25X1

THIS IS AN IMAGERY-DERIVED ANALYSIS OF MELITOPOL MACHINE TOOL PLANT 23 OKT. IT PROVIDES FUNCTIONAL IDENTIFICATIONS, DIMENSIONS, ROOF COVER, AND NUMBER OF STORIES FOR ALL BUILDINGS WITHIN THE PLANT. THE PLANT CONTAINS 58 BUILDINGS WITH A TOTAL OF 893,619 SQUARE FEET OF ROOF COVER, OF WHICH 734,464 SQUARE FEET ARE CONSIDERED TO BE DIRECTLY RELATED TO PRODUCTION, 43,555 SQUARE FEET RELATED TO RESEARCH,

1933
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

DEVELOPMENT, AND ENGINEERING ACTIVITIES, AND 115,600 SQUARE FEET UTILIZED FOR GENERAL SUPPORT AND STORAGE.

NPIC MEMO [Redacted] 29 AUG 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 2P ACCN: 50812 [Redacted] 25X1

AMDERMA AIR DEFENSE HQ TALL KING AW RADAR FAC UR 694500N 0614400E
WAC NO : 0049 BE/OBJ NO: [Redacted] NPIC NO : - 1-D 25X1
IDHS CODE: [Redacted] EPF CAT : 25H COMIREX NO: [Redacted] 25X1

THE AMDERMA AIR DEFENSE HEADQUARTERS RADAR FACILITY TALL KING [Redacted] 25X1
ONE ODD PAIR AND TWO SIDE NET RADARS WERE OBSERVED BUT IT COULD NOT BE DETERMINED IF THESE RADARS 25X1
HAD BEEN MODIFIED.* 25X1

NPIC MEMO [Redacted] 24 AUG 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 2P ACCN: 50812 [Redacted] 25X1

TYURATAM MTC R-400 MICROWAVE ANTS LOC/ORIEN UR 455637N 0632755E
WAC NO : 0246 BE/OBJ NO: [Redacted] NPIC NO : - 6 25X1
IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted] 25X1

THREE AREAS AT THE TYURATAM MISSILE TEST CENTER WERE REVIEWED [Redacted] 25X1
TO IDENTIFY MICROWAVE ANTENNAS. R-400 MICROWAVE ANTENNAS WERE IDENTIFIED MOUNTED ON 30-METER HIGH 25X1
MASTS AT FOUR LOCATIONS.*

[Redacted]

25X1

DIA IIM 5B3-57450-77 26 AUG 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 5P ACCN: 50812 25X1

MOSKVA MACHINE TOOL PLANT ORDZH 28 UR 554223N 0373543E
WAC NO : 0167 BE/OBJ NO: [Redacted] NPIC NO : 25X1
IDHS CODE: [Redacted] EPF CAT : 30C COMIREX NO: [Redacted] 25X1

DIA IIM 5B3-57453-77 26 AUG 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: 50812 25X1

AKTYUBINSK AIRFIELD POL STORAGE CAPACITY UR 501448N 0571223E
WAC NO : 0236 BE/OBJ NO: [Redacted] NPIC NO : - 1-A 25X1
IDHS CODE: [Redacted] EPF CAT : 051 COMIREX NO: [Redacted] 25X1

DIA IIM 5B3-57457-77 26 AUG 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 3P ACCN: 50812 25X1

1934
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

KUYBYSHEV AIRFIELD WEST POL STORAGE CAPACITY UR 531510N 0500320E
WAC NO : 0165 BE/OBJ NO: NPIC NO : - 18-51
IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1

25X1

DIA IIM 5B3-57461-77 26 AUG 77 SEC CLASS: 13 MSN: 2P

ACCN: S081238

25X1

OLENEGORSK AIRFIELD POL STORAGE CAPACITY UR 680908N 0332743E
WAC NO : 0051 BE/OBJ NO: NPIC NO : - 18
IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1

25X1

25X1

DIA IIM 5B3-57466-77 29 AUG 77 SEC CLASS: 13 MSN: 2P

ACCN: S081239

25X1

LUGA AIRFIELD SE POL STORAGE CAPACITY UR 584050N 0300240E
WAC NO : 0153 BE/OBJ NO: NPIC NO : - 124
IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1

25X1

DIA IIM 5B3-57467-77 30 AUG 77 SEC CLASS: 13 MSN: 2P

ACCN: S081240

25X1

ONEGA/ANDOZERO AIRFIELD U/C UR 635500N 0382550E
WAC NO : 0102 BE/OBJ NO: NPIC NO : - 50
IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

25X1

DIA IIM 5B3-57470-77 30 AUG 77 SEC CLASS: 13 MSN: 3P

ACCN: S081241

25X1

KIROVSK AIRFIELD SOUTH POL STORAGE CAPACITY UR 672735N 0333540E
WAC NO : 0091 BE/OBJ NO: NPIC NO : - 10-F
IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1

25X1

DIA IIM 5B3-57473-77 30 AUG 77 SEC CLASS: 13 MSN: 3P

ACCN: S081242

25X1

URAY AIRFIELD POL STORAGE CAPACITY UR 600700N 0644945E
WAC NO : 0100 BE/OBJ NO: NPIC NO : - 11
IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1

25X1

25X1

DIA IIM 5B3-57476-77 30 AUG 77 SEC CLASS: 13 MSN: 2P

ACCN: S081243

25X1

NADYM AIRFIELD SOUTH POL STORAGE CAPACITY UR 652859N 0724134E
WAC NO : 0094 BE/OBJ NO: NPIC NO : - 7-A
IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1

25X1

NPIC MIPIR CA0062-77 26 AUG 77 SEC CLASS: 14 MSN: 186P

ACCN: S081244

25X1

MIPIR 058/062

1935
TOP SECRET CHESS RUFF

25X1

25X1
25X1

TOP SECRET CHESS RUFF



WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 15A COMIREX NO:

NAVY DSIIR RMC06-8005-77 JUN 77 SEC CLASS: 05 MSN: 122P ACCN: S081245

NAVAL, SOUTH SEA FLEET INSTALLATIONS CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 75 COMIREX NO:

DIA STDY DDI1030-003-77 FEB 77 SEC CLASS: 25 MSN: 32P ACCN: S0812425X1

MISSILES, MRBM/IRBM SITES + WEAPON SYSTEMS CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40B COMIREX NO:

THIS STUDY ANALYZES ONE ASPECT THE OF CHINESE MR/IRBM PROGRAM - DETERMINING THE TYPE OF WEAPONS SYSTEM SUPPORTED BY DEPLOYED LAUNCH SITES. THE ANALYTIC FACTORS THAT RELATE TO THIS PROBLEM ARE EXAMINED AND EVALUATED TO DETERMINE THEIR RELATIVE USE IN ASSOCIATING A MISSILE SITE WITH A SPECIFIC WEAPONS SYSTEM.*

DIA STDY DST1830S-500-77 JUN 77 SEC CLASS: 25 MSN: 81P ACCN: S0812425X1

MILITARY, T-72 DEVELOPMENT + TEST FACILITIES UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 356 COMIREX NO:

THIS STUDY ASSESSES THE SOVIET MEDIUM TANK PROGRAM AND THE LEGACY WHICH PROVIDES THE UNDERPINNINGS FOR THE LATEST PRODUCTION MODEL, THE T-72.*

DIA STDY DST1710S-355-77 28 JUL 77 SEC CLASS: 25 MSN: 70P ACCN: S0812425X1

ELECTRONICS, OHD RADAR UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25A COMIREX NO:

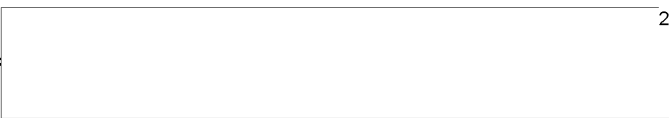
IN THIS STUDY THE SOVIET TECHNOLOGICAL CAPABILITIES IN THE DEVELOPMENT OF OTH RADAR AND ASSOCIATED TECHNIQUES AND EQUIPMENT ARE EXAMINED IN DETAIL. THE CAPABILITY OF THE SOVIETS TO SOLVE PROBLEMS ASSOCIATED WITH OTH RADAR DEVELOPMENTS IS COVERED, AS IS THE CAPABILITY OF THE RADAR TO PERFORM VARIOUS MISSIONS.*

DIA STDY DST1850S-007-77 15 JUL 77 SEC CLASS: 25 MSN: 277P ACCN: S081225X1

MISSILES, ROCKET PROPULSION DEV + TEST FACILS UR

25X1

1936
 TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:
MISSILES, ROCKET PROPULSION DEV + TEST FACILS	CH	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:
MISSILES, ROCKET PROPULSION DEV + TEST FACILS	CZ	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40E	COMIREX NO:

THIS STUDY PROVIDES AN ASSESSMENT OF EURASIAN COMMUNIST COUNTRIES (ECC) CHEMICAL ROCKET PROPULSION SYSTEM DEVELOPMENT AND TEST PROGRAMS, ASSOCIATED TEST FACILITIES, AND THE ABILITY OF THESE PROGRAMS AND FACILITIES TO SUPPORT WEAPON SYSTEMS AND SPACE PROGRAMS.
 THIS STUDY SUPERSEDES DST-1850S-007-75 SAO, ROCKET PROPULSION DEVELOPMENT + TEST PROGRAMS + FACILITIES-ECC.*

DIA STDY DDI1900-003-77 JUL 77 [] SEC CLASS: 25 MSN: 130P ACCN: S081250 25X1

TANGSHAN EARTHQUAKE EFFECTS + RECOVERY CH 393708N 1181146E
 WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 65 25X1
 IDHS CODE: [] EPF CAT : 10D COMIREX NO: 25X1

ON 28 JULY 1976 A MASSIVE EARTHQUAKE STRUCK EASTERN HOPEH PROVINCE IN THE PEOPLES REPUBLIC OF CHINA (PRC). THE QUAKE, WHICH REGISTERED 8.2 ON THE RICHTER SCALE, WAS CENTERED NEAR THE INDUSTRIAL CITY OF TANGSHAN, ABOUT 150 KILOMETERS SOUTHEAST OF PEKING. OF THE APPROXIMATELY 3.8 MILLION PEOPLE IN THE AREA MOST AFFECTED BY THE EARTHQUAKE, ABOUT 650,000 WERE KILLED AND 800,000 INJURED. SPURNING ALL OFFERS OF INTERNATIONAL ASSISTANCE, THE CHINESE BURIED THEIR DEAD, HOSPITALIZED THEIR INJURED, AND BEGAN RECOVERY OPERATIONS. THESE ACTIVITIES INVOLVED ACTIVE PARTICIPATION BY THE PARTY, GOVERNMENT, AND MILITARY. THE CITY OF TANGSHAN WAS VIRTUALLY DESTROYED, ONLY THE HEAVY INDUSTRY BEING SPARED. AT LEAST 90 PERCENT OF THE HOUSING AND MUCH OF THE LIGHT AND MEDIUM INDUSTRY WERE REDUCED TO RUBBLE.

AFTER THE INITIAL RELIEF EFFORTS, THE MAIN PRIORITIES WERE THE TRANSPORTATION AND COMMUNICATION NETWORKS. TEMPORARY HOUSING WAS ALSO A MAJOR REQUIREMENT. IT IS SIGNIFICANT THAT THE NEW DWELLINGS PROVIDE SHELTER FOR ONLY ABOUT ONE-THIRD OF THE PREQUAKE POPULATION, A REFLECTION OF THE HEAVY LOSS OF SKILLED WORKERS EITHER KILLED OR INJURED AND EVACUATED. TO DATE ONLY THE ELECTRIC POWER, STEEL, AND SOME CONSTRUCTION MATERIAL INDUSTRIES ARE BACK IN OPERATION.

THE RELIEF AND RECOVERY OPERATIONS PROVIDE THE BASIS FOR FURTHER ANALYSIS OF HOW THE CHINESE WOULD REACT TO A LIMITED NUCLEAR ATTACK AND WHERE THEY PLACE THEIR ECONOMIC EMPHASIS. THE CHINESE RESPONSE TO THE EARTHQUAKE DISASTER INDICATES THAT THEY ARE ORGANIZED AND REMAIN REASONABLY CALM IN EMERGENCY SITUATIONS. A SIMILAR REACTION COULD BE EXPECTED IN A NUCLEAR EXCHANGE.

DIA STDY DDI2610-009-77 JUL 77 [] SEC CLASS: 24 MSN: 24P ACCN: S081251 25X1

ELECTRONICS, COMMAND CNTRL COMMO FACs MIL OPS UR
 WAC NO : BE/OBJ NO: NPIC NO :

1937
 TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

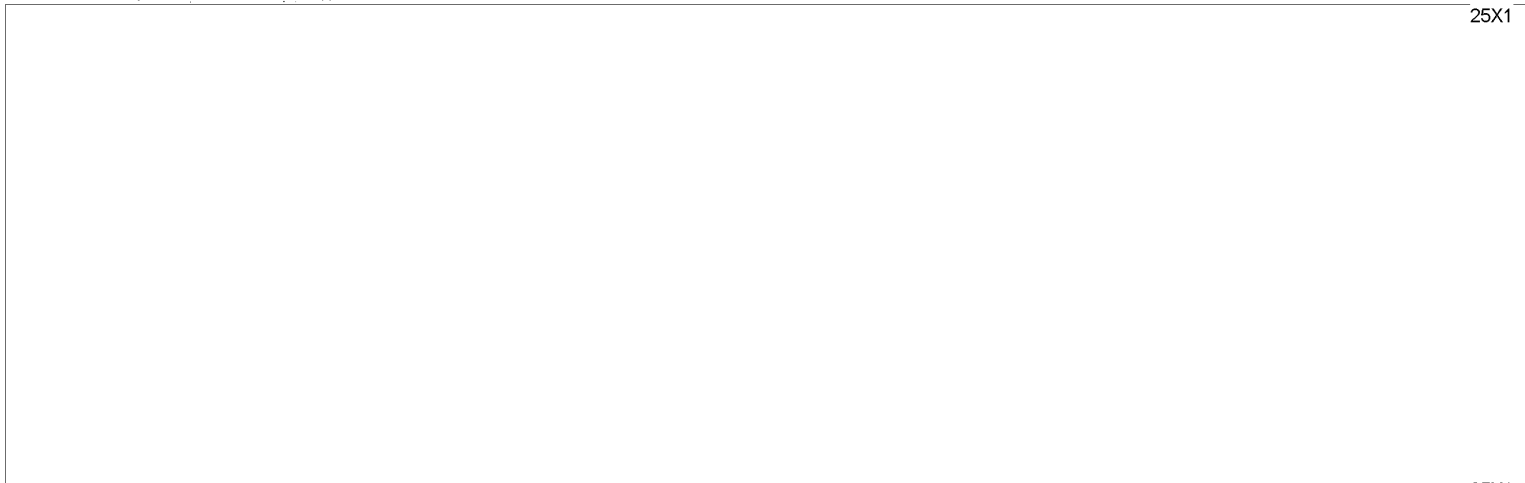
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS STUDY PROVIDES AN ANALYSIS OF SELECTED HARDENED COMMAND, CONTROL AND COMMUNICATIONS (C3) FACILITIES LOCATED WITHIN THE SOVIET UNION. THE REPORT SHOWS THAT THE SOVIETS HAVE DEPLOYED HARDENED C3 COMPLEXES ALONG THE PERIPHERY OF THE USSR IN THE AREAS WHERE THEY FACE POTENTIAL ADVERSARIES. THIS STUDY IS A FOLLOW-ON TO THE SOVIET GENERAL STAFF ALTERNATE COMMAND POST STUDY PUBLISHED IN JUNE 1976. FUTURE STUDIES WILL ADDRESS OTHER ASPECTS OF THE SOVIET AND EAST EUROPEAN COMMAND AND CONTROL SYSTEMS.

DIA STDY DDI1080-007-77 JUN 77 [redacted] SEC CLASS: 25B MSN: 24P ACCN: S081225X1

ELECTRONICS, COMMAND CONTROL SYSTEM AIR DEF UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25H COMIREX NO:

THIS STUDY PRESENTS AN OVERALL VIEW OF THE SOVIET NATIONAL AIR DEFENSE COMMAND AND CONTROL SYSTEM AND ITS ASSOCIATED COMMUNICATIONS COMPONENTS. A NUMBER OF STUDIES HAVE RECENTLY BEEN PRODUCED ON THIS SUBJECT, HOWEVER, THEY HAVE CONCENTRATED ONLY ON CERTAIN ASPECTS OF THE TOPIC. THIS STUDY RESPONDS TO A REQUIREMENT IN THE 1976 DEFENSE INTELLIGENCE PRODUCTION SCHEDULE AND IS THE FIRST PUBLICATION ON SOVIET AIR DEFENSE COMMAND AND CONTROL.



25X1

1938
TOP SECRET CHESS RUFF



25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Large Redacted Area]

25X1

NPIC PIR PIR020-77 AUG 77

SEC CLASS: 14D MSN:

3P

ACCN: S081257

25X1
25X1

MISSILES, SS-N-8/SS-NX-17/SS-NX-18 TRANS COMP
WAC NO :
IDHS CODE:

UR
BE/OBJ NO:
NPIC NO :
COMIREX NO:

EPF CAT : 406

1939
TOP SECRET CHESS RUFF

[Redacted]

25X1



TOP SECRET CHESS RUFF



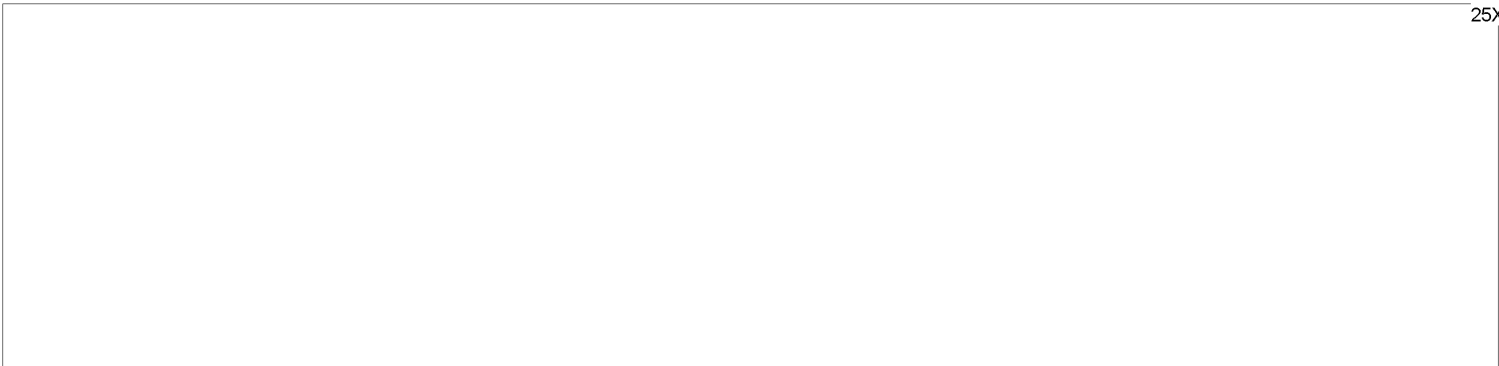
25X1

ANALYSIS OF THE SS-N-8 TRANSPORTER AT PETROPAVLOVSK KAMCHATKA NAVAL MISSILE STORAGE, USSR, AND THE SS-NX-18 SLBM TRANSPORTER AND EMPTY TRAILER CHASSIS AT NENOKSA NAVAL MISSILE TEST CENTER, USSR, INDICATES THAT THESE TWO TRANSPORTERS USE A COMMON CHASSIS. THIS CHASSIS IS A THREE-AXLE, GOOSENECK TRAILER, THE SS-N-8 AND SS-NX-18 MISSILES ARE CARRIED ON THE CHASSIS IN CANISTERS THAT ARE DISTINGUISHABLE FROM ONE ANOTHER BY THEIR LENGTH. THE SS-N-8 CANISTER IS 14.0 METERS LONG AND THE SS-NX-18 CANISTER IS 15.3 METERS LONG. THE IDENTIFICATION OF THE TRANSPORTER AS AN SS-N-8 OR SS-NX-18 TRANSPORTER, THEREFORE, DEPENDS UPON WHICH CANISTER THE CHASSIS CARRIES.

CIA REPT IS10015K-77 AUG 77 [redacted] SEC CLASS: 13 MSN: 51P ACCN: S08125X1

GENERAL, CIVIL DEFENSE MEASURES KEY IND FACS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:
INDUSTRY, CIVIL DEFENSE MEASURES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30 COMIREX NO:

THIS REPORT PRESENTS THE RESULTS OF A PHOTOGRAPHIC STUDY OF CIVIL DEFENSE ACTIVITIES AT 147 SOVIET INDUSTRIAL PLANTS. THESE GEOGRAPHICALLY DISPERSED PLANTS WERE SELECTED AS A SAMPLE FROM 12 KEY ECONOMIC RECOVERY INDUSTRIES IN AN ATTEMPT TO ASSESS THE EXTENT OF SOVIET EFFORTS TO PROVIDE PROTECTION FOR THEIR WORK FORCE AND INDUSTRIAL FACILITIES IN THE EVENT OF NUCLEAR ATTACK. THE REPORT IS PART OF CIA'S CONTRIBUTION TO AN INTERAGENCY EFFORT TO ASSESS THE OBJECTIVES AND EFFECTIVENESS OF THE SOVIET CIVIL DEFENSE PROGRAM. DEFENSE INDUSTRIES ARE BEING ANALYZED BY OTHER IMAGERY ANALYSIS ORGANIZATIONS IN THE INTELLIGENCE COMMUNITY.



25X1

1940
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC PIR PIR019-77 AUG 77 SEC CLASS: 14B MSN: 5P ACCN: S081262 25X1

MISSILES, SS-X-20 ALIGN/REF MARKERS LNCH RLTD	UR	
WAC NO :	BE/OBJ NO :	NPIC NO :
IDHS CODE :	EPF CAT : 40B	COMIREX NO :
KAPUSTIN YAR MTC CPLX C SITE 1 SS-X-20 MARKER	UR 483658N 0461800E	
WAC NO : 0235	BE/OBJ NO :	NPIC NO : - 10-A1
IDHS CODE :	EPF CAT : 40B	COMIREX NO :
GLADKAYA SSM R+D TEST PSTN SS-X-20 MARKERS	UR 561625N 0922745E	
WAC NO : 0159	BE/OBJ NO :	NPIC NO : - 7-M4
IDHS CODE :	EPF CAT : 40B	COMIREX NO :
DROVYANAYA MOBILE IRBM BASE 1 SS-X-20 MARKERS	UR 512718N 1130402E	
WAC NO : 0201	BE/OBJ NO :	NPIC NO : - 53-A3
IDHS CODE :	EPF CAT : 40B	COMIREX NO :

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

ANALYSIS OF IMAGERY OF KAPUSTIN YAR MR TEST COMPLEX C, SITE 1, GLADKAYA PROBABLE SSM RESEARCH AND DEVELOPMENT (R+D) TEST POSITION, AND DROVYANAYA MOBILE IRBM BASE 1, ALL IN THE USSR, HAS REVEALED PROBABLE ALIGNMENT/REFERENCE MARKERS WHICH APPEAR TO BE ASSOCIATED WITH THE SS-X-20 MISSILE SYSTEM. ALTHOUGH THE PURPOSE OF THESE PROBABLE ALIGNMENT/REFERENCE MARKERS HAS NOT BEEN DETERMINED, THE PRESENCE OF THE MARKERS AT TWO AREAS WHERE SS-X-20 LAUNCHES HAVE TAKEN PLACE (KAPUSTIN YAR AND GLADKAYA) AND NEAR DROVYANAYA MOBILE IRBM BASE 1, WHICH IS BELIEVED TO HAVE A PROBABLE LAUNCH CAPABILITY, SUGGESTS THAT THEY ARE NECESSARY LAUNCH SITE STRUCTURES WHICH ARE BUILT NEAR THE LAUNCH POINT(S). IF THIS IS TRUE, THEN SS-X-20 FIELD-DEPLOYED LAUNCH POSITIONS SHOULD HAVE SIMILAR SIGNATURES.

25X1

1941
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NAVY BIIR RNG23-0004-77 AUG 77 [] SEC CLASS: 25D MSN: [] 22P ACCN: 50812625X1

SHIPS, SUBMARINE COMPONENTS U/I	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, 199D CLASS SSAG	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, D CLASS SSBN	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
SHIPS, V-2 CLASS SSN	UR	
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 75D	COMIREX NO:
KOMSOMOLSK SHIPYARD AMUR 199	UR	503232N 1370248E
WAC NO : 0204	BE/OBJ NO: []	NPIC NO : - 13-F
IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []

THIS REPORT PROVIDES AN IMAGERY-DERIVED ANALYSIS CONCERNING SUBMARINE CONSTRUCTION ACTIVITIES AT KOMSOMOLSK SHIPYARD AMUR 199. THE REPORT IS THE THIRD IN A SERIES AND A DIRECT CONTINUATION OF THE INITIAL BASIC REPORT, SUBMARINE COMPONENTS KOMSOMOLSK SHIPYARD AMUR 199, BASIC IMAGERY INTERPRETATION REPORT (BIIR), RNG-23/0006/74 [] APRIL 1974 AND ITS SUCCESSOR, SUBMARINE COMPONENTS KOMSOMOLSK

25X1

25X1

1942
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

SHIPYARD AMUR 199, BASIC IMAGERY INTERPRETATION REPORT, RNG-23/0005/75, [REDACTED] JUNE 1975. THE BASIC REPORT CONTAINS TEXTUAL AND GRAPHIC INFORMATION CONCERNING THE SHIPYARD FACILITIES, PRODUCTIVE HISTORY, AND ASSOCIATED SUBMARINE HULL SECTIONS AND COMPONENTS. THIS STUDY IS BASED ON THE INTERPRETATION OF [REDACTED] THE DIMENSIONAL ACCURACY OF THE DIMENSIONS STATED IS CONSIDERED [REDACTED] THE MEASURED DISTANCE WITH A 95% CONFIDENCE LEVEL.

25X1

25X1
25X1

25X1

NPIC MIPIR CA0067-77 02 SEP 77 [REDACTED] SEC CLASS: 14 MSN: 161P

ACCN: 5081269 25X1

MIPIR 063/067

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 15A

NPIC NO :
COMIREX NO:

DIA IIM 5B3-57478-77 31 AUG 77 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED] 3P

ACCN: 5081270 25X1

RAKVERE/VAINUPAA AIRFIELD POL STGE/AAM BUNKER

UR 593210N 0261850E
WAC NO : 0153 BE/OBJ NO: [REDACTED] NPIC NO : - 193
IDHS CODE: [REDACTED] EPF CAT : 05I COMIREX NO:

25X1
25X1

1943
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-57481-77 31 AUG 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: S0812725X1
 UMBA AIRFIELD NW UR 665430N 0335130E
 WAC NO : 0091 BE/OBJ NO: [] NPIC NO : - 53 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: 25X1

DIA IIM 5B3-57485-77 01 SEP 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S0812725X1
 NEBIT DAG AIRFIELD FLAGON C SU-15 UR 392854N 0542148E 25X1
 WAC NO : 0338 BE/OBJ NO: [] NPIC NO : - 12 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

DIA IIM 5B3-57489-77 31 AUG 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: S0812725X1
 MOSKVA MACHINE TOOL PLANT STKKONSTRUKTSIYA UR 554222N 0373607E 25X1
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: 25X1

1944
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA NBRG NDA07-5336-77 31 AUG 77 SEC CLASS: 05G MSN: 1P ACCN: S081276

ULAN UDE ARMY BARRACKS AL1 + HQ MRD UR 515350N 1073150E
WAC NO : 0201 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5337-77 31 AUG 77 SEC CLASS: 05G MSN: 1P ACCN: S081277

GUSINOOZERSK ARMY BARRACKS AL1 + HQ MRD UR 511930N 1062715E
WAC NO : 0201 BE/OBJ NO: NPIC NO : - 200-A
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA IIM 5B1-57396-77 09 AUG 77 SEC CLASS: 14B MSN: 7P ACCN: S081278

VINOGRADOV ENGINEER/NZHM-56 STORAGE DEPOT UR 480755N 0230230E
WAC NO : 0232 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1
25X1

DIA IIM 5B1-57397-77 10 AUG 77 SEC CLASS: 14B MSN: 5P ACCN: S081279

SHKLOV MILITARY ENGINEER STORAGE/NZHM FACII UR 541425N 0301620E
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35F COMIREX NO:

25X1
25X1

25X1

1945
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

DIA IIM 5B1-57421-77 15 AUG 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: 50812825X15X1

KIROVOGRAD AMMUNITION STORAGE CIV STGE PROB UR 482952N 0321409E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 28-F5
IDHS CODE: [] EPF CAT : 35F COMIREX NO:
KIROVOGRAD AMMUNITION STORAGE CIV STGE PROB UR 482952N 0321409E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 28-F5
IDHS CODE: [] EPF CAT : 80B COMIREX NO:

25X1

25X1

25X1

25X1

KIROVOGRAD AMMUNITION STORAGE IS IDENTIFIED AS A CIVILIAN QUARRY EXPLOSIVE STORAGE AREA. THIS FACILITY IS BEING ABANDONED.*

DIA IIM 5B1-57422-77 15 AUG 77 [] SEC CLASS: 14B MSN: [] 12P ACCN: 50812825X1

YAROSLAVL RAILROAD CONSTRUCTION ENGINEER BKS UR 573948N 0395501E
WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 70-D1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1

25X1

25X1

DIA IIM 5B1-57437-77 18 AUG 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: 50812825X1

NIZHNIY TAGIL MILITARY DEPOT CIV STGE PROB UR 575605N 0595330E
WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 17-L1
IDHS CODE: [] EPF CAT : 35F COMIREX NO:
NIZHNIY TAGIL MILITARY DEPOT CIV STGE PROB UR 575605N 0595330E
WAC NO : 0156 BE/OBJ NO: [] NPIC NO : - 17-L1
IDHS CODE: [] EPF CAT : 80B COMIREX NO:

25X1

25X1

25X1

25X1

NIZHNIY TAGIL MILITARY DEPOT IS NEGATED AS A MILITARY INSTALLATION. IT IS BELIEVED THAT THIS AREA PROVIDES STORAGE, PARKING, AND LIMITED MAINTENANCE FOR CONSTRUCTION EQUIPMENT.*

DIA IIM 5B1-57483-77 AUG 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: 50812825X1

RYCHNOV NAD KNEZNOU ARMY BKS 1 SS-1 BRGD SRCH CZ 501010N 0161620E

25X1

1946
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0232
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35A

NPIC NO :
COMIREX NO:

25X1
25X1

DIA IIM 581-57403-77

AUG 77

SEC CLASS: 14B MSN:

2P

ACCN: S081287

25X1

TELISH TACTICAL SSM BARRACKS

WAC NO : 0322
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35A

BU 432020N 0241540E
NPIC NO : - 92-D
COMIREX NO:

25X1
25X1
25X1

NPIC MEMO

01 SEP 77

SEC CLASS: 14B MSN:

1P

ACCN: S081289

25X1

KAPUSTIN YAR MTC ELECTRONICS VAN/FAC NEW SRCH

WAC NO : 0235
IDHS CODE:

BE/OBJ NO:
EPF CAT : 25C

UR 4841 N 04558 E
NPIC NO :
COMIREX NO:

DIA STDY DDI1030-005-77

AUG 77

SEC CLASS: 25A MSN:

22P

ACCN: S081290

25X1

MISSILES, SS-X-20 DEPLOYMENT STATUS

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40B

UR
NPIC NO :
COMIREX NO:

THIS REPORT ADDRESSES THE STATUS OF SOVIET ACTIVITY IN PREPARATION FOR INITIAL DEPLOYMENT OF THE MOBILE SS-X-20 INTERMEDIATE RANGE BALLISTIC MISSILE. IT REVIEWS THE CONSTRUCTION OF FACILITIES AT THE SEVERAL MOBILE IRBM BASES NOW BEING PREPARED FOR SS-X-20 DEPLOYMENT, AND ANALYZES THE NUMBER AND TYPES OF GARAGES BEING BUILT AT EACH BASE. THE REPORT ATTEMPTS TO CORRELATE THESE STRUCTURES WITH THE SEVERAL TYPES OF IDENTIFIED SS-X-20 SUPPORT VEHICLES, AND PRESENTS A PRELIMINARY ANALYSIS AT EACH BASE AS WELL AS THE EQUIPMENT COMPOSITION OF AN INDIVIDUAL LAUNCH UNIT.*

25X1

1947
TOP SECRET CHESS RUFF

25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Large Redacted Area]

25X1

DIA NBRG NDA07-5329-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081308

MINSK ARMY BARRACKS PODBOLOTYE SW AL12
WAC NO : 0168 BE/OBJ NO: [Redacted] UR 535641N 0273732E
IDHS CODE: [Redacted] EPF CAT : 35A NPIC NO : - 46-W
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5330-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081309

MIROPOL ARMY BARRACKS AL1
WAC NO : 0233 BE/OBJ NO: [Redacted] UR 500610N 0274140E
IDHS CODE: [Redacted] EPF CAT : 35A NPIC NO : - 153
COMIREX NO: [Redacted]

25X1
25X1

DIA NBRG NDA07-5331-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081310

ECHMIADZIN ARMY BARRACKS SW AL3
WAC NO : 0325 BE/OBJ NO: [Redacted] UR 400938N 0441724E
IDHS CODE: [Redacted] EPF CAT : 35A NPIC NO : - 68-P
COMIREX NO: [Redacted]

25X1
25X1

DIA NBRG NDA07-5332-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081311

YEREVAN ARMY BARRACKS SOVETASHAN AL4
UR 400530N 0443320E

1951
TOP SECRET CHESS RUFF

[Redacted]

25X1



TOP SECRET CHESS RUFF



25X1
25A1

WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 68-N
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5333-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081312

TSKHINVALI ARMY BARRACKS NW AL1 UR 421425N 0435705E
WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 136
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5334-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081313

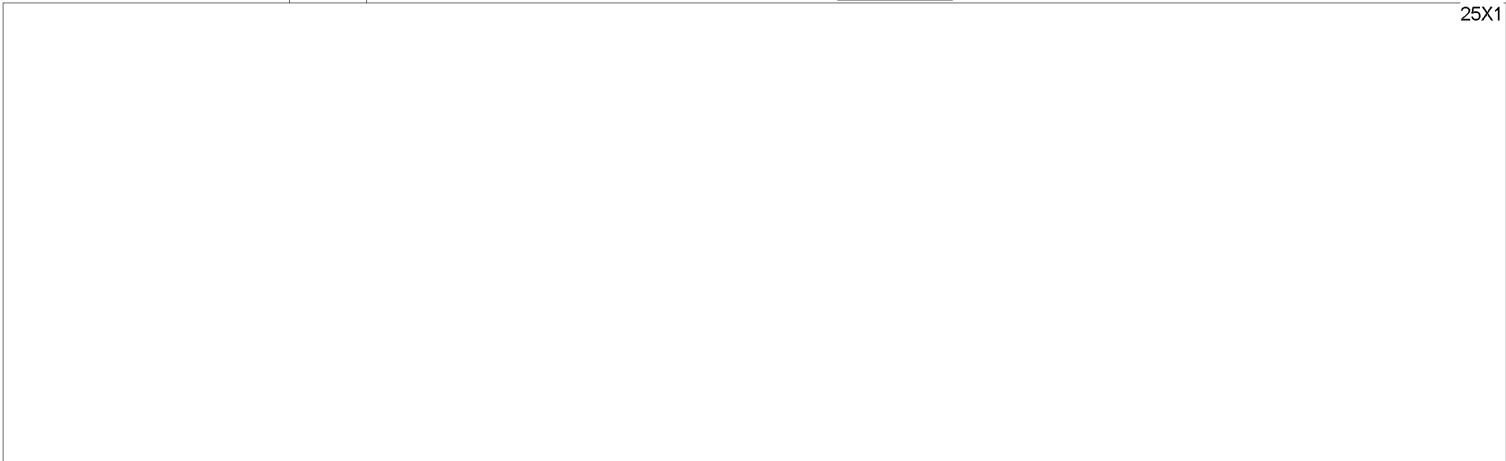
YEREVAN ARMY BARRACKS AL9 + HQ MRD UR 401500N 0443607E
WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 68-U
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5335-77 31 AUG 77 SEC CLASS: 05B MSN: 1P ACCN: S081314

BANK ARMY BARRACKS AL1 UR 392456N 0491536E
WAC NO : 0339 BE/OBJ NO: [] NPIC NO : - 14-A
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1
25X1



1952
TOP SECRET CHESS RUFF



25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA STDY DST10705-231-77 30 JUN 77 [] SEC CLASS: 25 MSN: [] 308P

ACCN: 5081339 25X1

SHUANGCHENGZU MTC
 WAC NO : 0287
 IDHS CODE: []
 TIENWEI MTC
 WAC NO : 0496
 IDHS CODE: []
 WUCHAI MTC
 WAC NO : 0382
 IDHS CODE: []
 CHINGYU MTC
 WAC NO : 0290
 IDHS CODE: []
 CHINHSI MTC
 WAC NO : 0289

BE/OBJ NO: []
 EPF CAT : 40E
 BE/OBJ NO: []
 EPF CAT : 40E
 BE/OBJ NO: []
 EPF CAT : 40E
 BE/OBJ NO: []
 EPF CAT : 40E
 BE/OBJ NO: []
 EPF CAT : 40E

CH 410800N 1001500E
 NPIC NO : - 1
 COMIREX NO: []
 CH 255520N 1024928E
 NPIC NO : - 14
 COMIREX NO: []
 CH 384950N 1113620E
 NPIC NO : - 77-F
 COMIREX NO: []
 CH 421705N 1265320E
 NPIC NO : - 201
 COMIREX NO: []
 CH 404126N 1205309E
 NPIC NO : - 19-01

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

1957
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

IDHS CODE: EPF CAT : 40E COMIREX NO:
 MISSILES, MISSILE TEST CENTERS CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1

THIS REPORT PRESENTS AN ALL-SOURCE HISTORY AND ANALYSIS OF THE SURFACE-TO-SURFACE MISSILE RANGES IN THE PEOPLE'S REPUBLIC OF CHINA. THESE INCLUDE THE SHUANG-CH'ENG-TZU MISSILE TEST RANGE AND THE WU-CHAI, CHING-YU, CHIN-HSI, AND TIEN-WEI MISSILE TEST CENTERS.

THIS STUDY FOLLOWS THE DEVELOPMENT OF EACH TEST CENTER AND PRESENTS A DETAILED EVALUATION OF LAUNCH FACILITIES, SUPPORT FACILITIES, INCLUDING COMMUNICATIONS FACILITIES AND NETWORKS, INSTRUMENTATION NETWORKS AND FACILITIES, LAUNCH VEHICLE CHECKOUT AND MAINTENANCE FACILITIES, AND GENERAL SUPPORT FACILITIES ARE SIMILARLY REPORTED. IN MOST CASES THE EXTENT AND CAPACITY OF SUPPORT FACILITIES AT EACH TEST CENTER APPEAR TO EXCEED THE REQUIREMENTS EXPECTED TO BE GENERATED BY THE CENTER'S FEW LAUNCH FACILITIES, AS EVIDENCED BY THE LOW LEVEL OF LAUNCH ACTIVITY. ALSO INCLUDED IS AN EVALUATION OF THE SSM/SPACE-TRACKING AND INSTRUMENTATION FACILITIES THAT MAY SUPPORT SEVERAL TEST CENTERS IN ONE OR MORE CAPACITIES.

DIA STDY DST1000C-553-77 31 JUL 77 SEC CLASS: 25 MSN: 53P ACCN: S0813425X1

MISSILES, BALLISTIC MISSILE SYSTEMS ACTIVITY CH
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40 COMIREX NO:

THIS SEMI-ANNUAL REPORT PRESENTS A SUMMARY OF THE PEOPLE'S REPUBLIC OF CHINA (PRC) ICBM/IRBM/MRBM SYSTEMS ACTIVITY OBSERVED DURING THE PERIOD 1 JANUARY 1977 TO 30 JUNE 1977. THE REPORT CONTAINS ASSESSMENTS OF NEW OR UNUSUAL ACTIVITY INVOLVING OPERATIONAL SYSTEMS, INCLUDING THE RESPECTIVE DEPLOYMENT PROGRAMS. IN ADDITION, INDICATORS OF EMERGING OR NEW ICBM/IRBM/MRBM SYSTEMS FLIGHT TEST ACTIVITY, AND OVERHEAD PHOTOGRAPHY OF MISSILE PRODUCTION FACILITIES, ROCKET ENGINE TEST FACILITIES, AND MISSILE TEST CENTERS ARE DISCUSSED.

25X1

DIA STDY DST1010S-447-77 25 JUL 77 SEC CLASS: 25 MSN: 82P ACCN: S0813425X1

MISSILES, ICBM ACCURACY ASSESSMENT UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40A COMIREX NO:

THIS STUDY DISCUSSES THE ACCURACY OF THE SOVIET SS-X-16, SS-17, SS-18, AND SS-19 ICBMS AND PRESENTS ASSESSMENTS FOR INITIAL OPERATIONAL CAPABILITY IN THE CURRENT TIME FRAME AS WELL AS PROJECTED POTENTIAL CAPABILITY IN 1980. THE ASSESSMENTS HAVE BEEN BASED ON A COMBINATION OF PERTINENT ALL-SOURCE INFORMATION AVAILABLE PRIOR TO 31 MAY 1977, SUPPLEMENTED BY ENGINEERING JUDGMENT AND ANALOGY WITH US EXPERIENCE.

DIA STDY DST1830S-104-77 01 JUL 77 SEC CLASS: 25 MSN: 163P ACCN: S0813425X1

AIRCRAFT, AVIATION INDUSTRY DESIGN RESOURCES UR

25X1

1958
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 056 COMIREX NO:

THE PRIMARY PURPOSE OF THIS STUDY IS TO IDENTIFY, LOCATE, AND ASSESS SOVIET MINISTRY OF AVIATION INDUSTRY AIRFRAME AND PROPULSION DESIGN BUREAUS AND TO ESTABLISH THE NATURE, MAGNITUDE, AND TREND IN RESOURCE GROWTH THAT HAS OCCURRED UP TO THE PRESENT. A SECONDARY PURPOSE IS TO DEFINE THE PRODUCT INTERESTS OF EACH CHIEF DESIGNER, HIS PROFESSIONAL STATURE, MOTIVATION AND ASSOCIATED SENIOR DESIGN STAFF, AND OTHER KEY FACTORS IN THE FUNCTIONING OF THESE IMPORTANT AVIATION INDUSTRY DESIGN AND DEVELOPMENT RESOURCES. AS A TREND STUDY, A FOUNDATION IS PROVIDED FOR CREDIBLY DETERMINING THE RESOURCE BASE THAT CURRENTLY EXISTS, THE EFFECTIVENESS OF ITS USE, AND THE CAPABILITY THAT IS AVAILABLE COLLECTIVELY WITHIN THE INDUSTRY TO UNDERTAKE THE DEVELOPMENT OF FUTURE OPERATIONAL AERODYNAMIC SYSTEMS. THIS STUDY SUPERSEDES AND UPDATES SAO/ST-SS-01-104-73, 'SOVIET AVIATION INDUSTRY DESIGN RESOURCES'. CHANGES INCORPORATED INCLUDE THE ADDITION OF MANPOWER RESOURCE GROWTH TRENDS, AND THE USE OF FLOORSPACE TO MORE ACCURATELY DESCRIBE FACILITY RESOURCE GROWTH. THE INFORMATION CUTOFF DATE IS 1 JANUARY 1977.

DIA STDY DSTI070S-006-77 JUN 77 [] SEC CLASS: 25F MSN: 363P ACCN: S081343 25X1

KAPUSTIN YAR MTC
WAC NO : 0235 BE/OBJ NO: [] UR 484107N 0455853E 25X1
IDHS CODE: [] EPF CAT : 40E NPIC NO : - 10 25X1
COMIREX NO: []

THE PURPOSE OF THIS REPORT IS TO DOCUMENT IN A SINGLE VOLUME ALL AVAILABLE INTELLIGENCE INFORMATION CONCERNING THE SURFACE-TO-SURFACE AND SURFACE-TO-AIR MISSILE FACILITIES, RANGE OPERATIONS AND CONTROL, INSTRUMENTATION, COMMUNICATIONS, PROBABLE KYMTR-RELATED TRANSPORTATION AND INDUSTRIAL FACILITIES, AS WELL AS A SHORT SUMMARY OF THE PHYSICAL CHARACTERISTICS AND HISTORY OF KYMTR.

NPIC BIIR RCA09-0012-77 SEP 77 [] SEC CLASS: 25B MSN: [] 17P ACCN: S081344 25X1

MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC UR 554000N 0375600E 25X1
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 58-N1 25X1
IDHS CODE: [] EPF CAT : 356 COMIREX NO:

AIRCRAFT, AIRFRAME DESIGN BUREAU ACTIVITY UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 056 COMIREX NO:

KIYEV AIRFRAME PLANT 473 UR 502752N 0302329E 25X1
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 29-D 25X1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

TAGANROG AIRFRAME PLANT DIMITROV 86 UR 471154N 0385221E 25X1
WAC NO : 0249 BE/OBJ NO: [] NPIC NO : - 38-D 25X1
IDHS CODE: [] EPF CAT : 056 COMIREX NO: []

MOSKVA AIRFRAME EXPERIMENTAL PLANT 240 UR 554803N 0373223E 25X1
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 46-K3 25X1

1959
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
LYUBERTSY HELICOPTER EXPERIMENTAL PLANT KAMOV	UR 554154N 0375242E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 94-A4
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
MOSKVA AIRCRAFT EXPERIMENTAL PLANT 155	UR 554846N 0373034E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 97-B1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
MOSKVA MILITARY DESIGN BUREAU + A/C EXPMT FAC	UR 554000N 0375600E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 58-N1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
MOSKVA AIRCRAFT EXPERIMENTAL PLANT 51	UR 554700N 0373230E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 46-I4
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
MOSKVA AIRCRAFT EXPERIMENTAL PLANT TSAGI 156	UR 554542N 0374034E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 96-D
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []
MOSKVA AIRCRAFT EXPERIMENTAL PLANT 115	UR 554817N 0373126E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 46-C1
IDHS CODE: []	EPF CAT : 05G	COMIREX NO: []

25X15X1

25X1
25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS REPORT DESCRIBES RESEARCH AND DEVELOPMENT FLOORSPACE CONSTRUCTION AND PROVIDES AN OVERALL GROWTH PATTERN AT SOVIET AIRCRAFT DESIGN BUREAUS. THE DESIGN BUREAU, OR OKB (EXPERIMENTAL OR SPECIAL CONSTRUCTION BUREAU), IS RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF NEW AIRCRAFT SYSTEMS AND IMPROVEMENT OF EXISTING OPERATIONAL SYSTEMS. DESIGN BUREAUS ARE HEADED BY CHIEF DESIGNERS WHO REPRESENT AN ELITE GROUP AMONG THE HIERARCHY OF SOVIET SCIENTISTS AND ENGINEERS. MANY HAVE BEEN PIONEERS IN THE DEVELOPMENT OF SOVIET AVIATION. EVEN THOUGH SEVEN OF THESE CHIEF DESIGNERS ARE NO LONGER LIVING, THE BUREAU AND THE AIRCRAFT PRODUCED BY THE BUREAU RETAIN THE NAME OF THE ORIGINAL CHIEF DESIGNER. FOR REPORTING PURPOSES THE DESIGN BUREAUS ARE DIVIDED INTO THREE CATEGORIES-LARGE (BOMBERS AND TRANSPORTS), SMALL (FIGHTERS), AND HELICOPTERS. DESIGN BUREAUS WITH DUAL FUNCTIONS ARE CATEGORIZED WITH THEIR MOST PROMINENT AND/OR CURRENT SYSTEM.

THIS REPORT INCLUDES THREE LOCATION MAPS, NINE PHOTOGRAPHS, AND A COMPOSITE CHART OF DESIGN BUREAU LOCATION AND GROWTH. THE INFORMATION CUTOFF DATE FOR THIS REPORT IS 1 MAY 1977.

25X1

1960

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



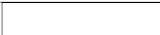
25X1



25X1

CIA BIIR RCS13-0019-77

AUG 77



SEC CLASS: 13

MSN:



9P

ACCN: S081350

25X1

1961
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

INDUSTRY, IRON + STEEL PLANTS HUPEICHENG

WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	
HUANGSHIH IRON PLANT		CH 301142N 1150302E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 56-A	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
KUANGSHIH IRON PLANT		CH 313057N 1135930E	25X1
WAC NO : 0494	BE/OBJ NO: []	NPIC NO : - 23-A2	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
LIUCHIACHANG IRON PLANT		CH 300405N 1112850E	25X1
WAC NO : 0494	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
WANGCHIAYING IRON PLANT		CH 301830N 1084020E	25X1
WAC NO : 0494	BE/OBJ NO: []	NPIC NO : - 82	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
WUHAN IRON PLANT HANYANG		CH 303348N 1141417E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 38-B6	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
OCHENG IRON + STEEL PLANT		CH 302418N 1145140E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 100-B	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
TAYEH IRON + STEEL PLANT HSIALU		CH 301125N 1145832E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 56-B1	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO:	25X1
WUHAN IRON + STEEL PLANT		CH 303734N 1142627E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 38-H	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []	25X1
HUANGSHIH STEEL PLANT TAYEH		CH 301218N 1150710E	25X1
WAC NO : 0493	BE/OBJ NO: []	NPIC NO : - 29-D	25X1
IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []	25X1

IN LATE 1976 THERE WERE NINE PLANTS ENGAGED IN THE PRODUCTION OF IRON, STEEL, AND ROLLED STEEL PRODUCTS IN HUPEH PROVINCE. FIVE ARE PIG IRON PLANTS, THREE ARE IRON AND STEEL PLANTS, AND ONE IS A STEEL PLANT. THE PLANTS ARE GENERALLY DISTRIBUTED IN THE EASTERN PORTION OF THE PROVINCE.

25X1

1962

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC MEMO

AUG 77

SEC CLASS: 13 MSN:

2P

ACCN: S081353

KUYBYSHEV/BEZMYANKA AIRFIELD RADAR UNIT SRCH

UR 531307N 0501940E

WAC NO : 0165

BE/OBJ NO:

NPIC NO : - 18-B

IDHS CODE:

EPF CAT : 25H

COMIREX NO:

NPIC MEMO

AUG 77

SEC CLASS: 13 MSN:

2P

ACCN: S081354

MOZYR AIRFIELD SS-X-20 RELATED ACTIVITY SRCH

UR 515855N 0291000E

WAC NO : 0233

BE/OBJ NO:

NPIC NO : - 115

IDHS CODE:

EPF CAT : 40B

COMIREX NO:

1963

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

MOZYR AIRFIELD SS-X-20 RELATED ACTIVITY SRCH UR 515855N 0291000E
 WAC NO : 0233 BE/OBJ NO: NPIC NO : - 115
 IDHS CODE: EPF CAT : 05A COMIREX NO:
 IZHEVSK AIRFIELD EAST SS-X-20 RLTD ACT SEARCH UR 565057N 0531749E
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 3-E
 IDHS CODE: EPF CAT : 40B COMIREX NO:
 IZHEVSK AIRFIELD EAST SS-X-20 RLTD ACT SEARCH UR 565057N 0531749E
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 3-E
 IDHS CODE: EPF CAT : 05A COMIREX NO:
 IZHEVSK AIRFIELD SOUTH SS-X-20 RLTD ACT SRCH UR 564549N 0531132E
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 3-E1
 IDHS CODE: EPF CAT : 40B COMIREX NO:
 IZHEVSK AIRFIELD SOUTH SS-X-20 RLTD ACT SRCH UR 564549N 0531132E
 WAC NO : 0155 BE/OBJ NO: NPIC NO : - 3-E1
 IDHS CODE: EPF CAT : 05A COMIREX NO:

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

DIA IIM 5B3-57516-77 AUG 77 SEC CLASS: 13 MSN: 16P

ACCN: 50813525X1

VITEZ CHEMICAL PLANT SLOBODAN PRINCIPSELJO YO 440928N 0174542E
 WAC NO : 0252 BE/OBJ NO: NPIC NO : - 108-A
 IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1
25X1

VITEZ CHEMICAL PLANT SLOBODAN PRINCIPSELJO IS 2 KILOMETERS WEST OF VITEZ, 12 KILOMETERS SOUTHWEST OF ZENICA AND 236 KILOMETERS SOUTHEAST OF ZAGREB IN CENTRAL YUGOSLAVIA. THE WALL-AND-FENCE-SECURED INSTALLATION OCCUPIES 150 HECTARES AND IS SERVED BY BOTH ROAD AND RAIL. THE PLANT, WHICH PRODUCES BOTH SINGLE AND DOUBLE BASE PROPELLANTS, INCLUDES AN ACID PRODUCTION AREA, A NITROGLYCERIN PRODUCTION AREA, A LOADING AREA, TWO EXPLOSIVES/AMMUNITION STORAGE AREAS AND A SUPPORT AREA WHICH INCLUDES ADMINISTRATION/ENGINEERING FACILITIES.
 THE INSTALLATION CONTAINS A TOTAL OF 258 BUILDINGS, FUNCTIONALLY TABULATED.

DIA IIM 5B2-57337-77 SEP 77 SEC CLASS: 14 MSN: 22P

ACCN: 50813525X1

BRAILA PORT FACILITIES RO 451644N 0275906E
 WAC NO : 0250 BE/OBJ NO: NPIC NO : - 11-B
 IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1
25X1

DIA IIM 5B3-57532-77 13 SEP 77 SEC CLASS: 13 MSN: 3P

ACCN: 50813525X1

BALAKOVO AIRFIELD POL STORAGE CAPACITY UR 520222N 0475036E
 WAC NO : 0166 BE/OBJ NO: NPIC NO : - 3-C2
 IDHS CODE: EPF CAT : 05I COMIREX NO:

25X1
25X1

DIA IIM 5B3-57547-77 14 SEP 77 SEC CLASS: 13 MSN: 2P

ACCN: 50813525X1

1964
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

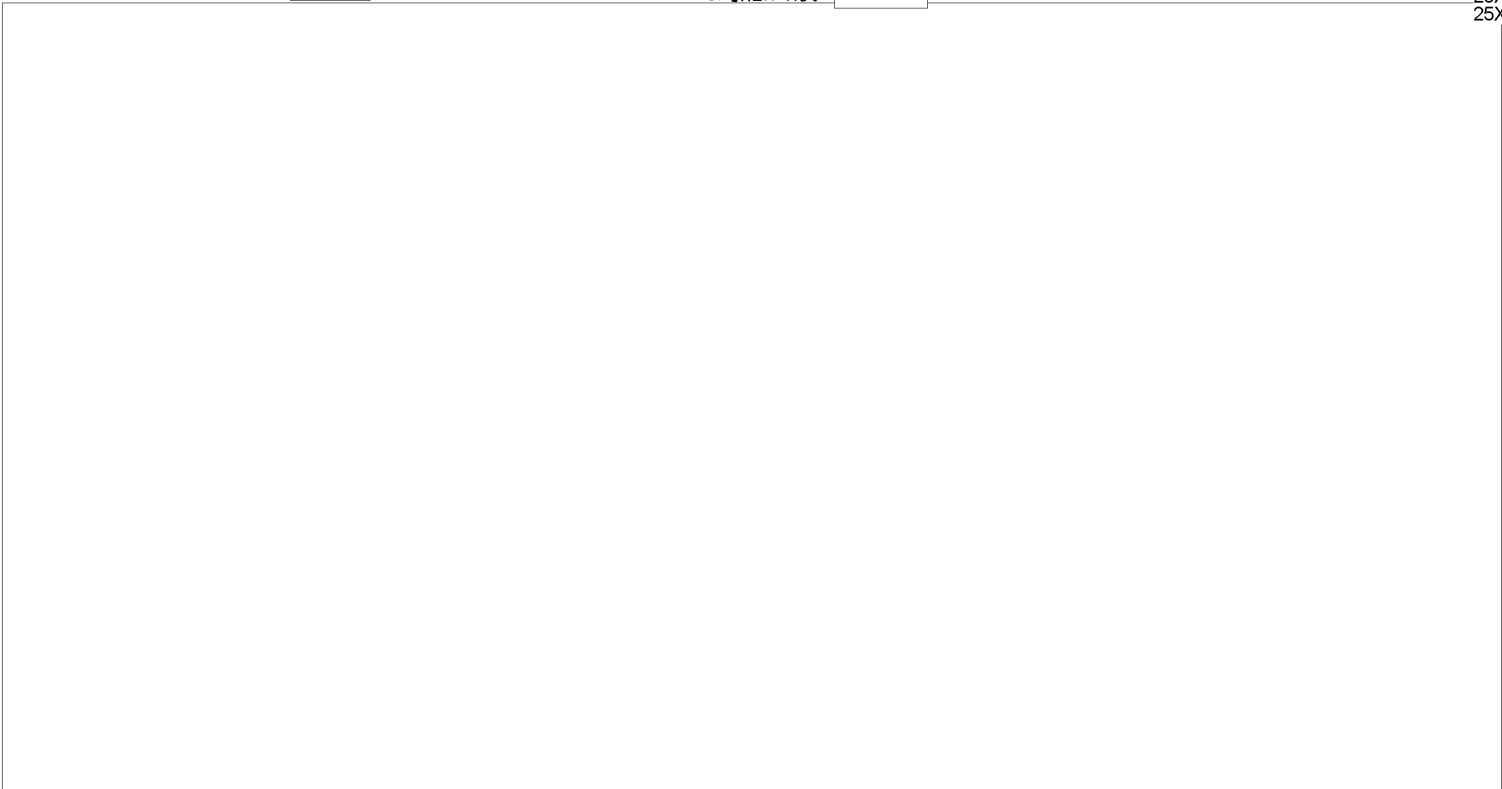
VYAZMA AIRFIELD

WAC NO : 0167
IDHS CODE: [redacted]

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

UR 550855N 0342250E
NPIC NO : - 85
COMIREX NO: [redacted]

25X1
25X1
25X1



1965
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

CIA NOTE ISSN0006K-77 01 SEP 77

SEC CLASS: 14

MSN:

20P

ACCN: 5081367

25X1

1967
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

INDUSTRY, CIVIL DEFENSE MEASURES

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 30	COMIREX NO:
MOZYR SS-X-20 TROOP TRAINING FACIL POSS U/C		UR 520226N 0291120E
WAC NO : 016A	BE/OBJ NO:	NPIC NO : - 110-E
IDHS CODE:	EPF CAT : 40B	COMIREX NO:
NIZHNYAYA SALDA ROCKET ENG TEST HYDRO-FUELED		UR 580930N 0605602E
WAC NO : 0156	BE/OBJ NO:	NPIC NO : - 29-F
IDHS CODE:	EPF CAT : 40E	COMIREX NO:
MISSILES, SSM FIELD SITES EROSION		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40	COMIREX NO:
LUVVA ROCKET LAUNCH SITE IDENT		CG 084815S 0251920E
WAC NO : 1055	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 40	COMIREX NO:
PETROVKA NAVAL BASE + SHPYD SUB RPR HALL U/C		UR 430703N 1322017E
WAC NO : 0291	BE/OBJ NO:	NPIC NO : - 67
IDHS CODE:	EPF CAT : 75B	COMIREX NO:
PETROVKA NAVAL BASE + SHPYD SUB RPR HALL U/C		UR 430703N 1322017E
WAC NO : 0291	BE/OBJ NO:	NPIC NO : - 67
IDHS CODE:	EPF CAT : 75E	COMIREX NO:
AIRFIELDS, SNOW REMOVAL PROBLEM		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05A	COMIREX NO:
INDUSTRY, COAL GASIFICATION SITES U/G		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 30B	COMIREX NO:
LANCHOU PETROCHEMICAL PLANT COPY		CH 360745N 1033627E
WAC NO : 0383	BE/OBJ NO:	NPIC NO : - 3-22
IDHS CODE:	EPF CAT : 30F	COMIREX NO:

25X1
25X1

25X1
25X1

25X1

25X1
25X1

25X1
25X1

25X1
25X1

NPIC SR SR066-77 SEP 77 [] SEC CLASS: 14B MSN: [] 3P

ACCN: S081366 [] 25X1

MOSKVA ABM COMPLEX E03 AA-6 CANISTER STORAGE	UR 562343N 0381119E	
WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 98-B1
IDHS CODE:	EPF CAT : 40D	COMIREX NO:
MOSKVA ABM COMPLEX E03 AA-6 CANISTER STORAGE	UR 562343N 0381119E	
WAC NO : 0154	BE/OBJ NO:	NPIC NO : - 98-B1
IDHS CODE:	EPF CAT : 40J	COMIREX NO:

25X1
25X1

25X1
25X1

THE MISSILE CANISTERS SEEN IN STORAGE AT THE MOSKVA ABM LAUNCH COMPLEX E03, USSR, []
[] HAVE NOW BEEN IDENTIFIED AS AA-6 (ACRID) MISSILE CANISTERS. THESE MISSILE CANISTERS,

25X1

25X1

1968
TOP SECRET CHESS RUFF

25X1

Page Denied

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC REPT [Redacted] JUN 77 [Redacted] SEC CLASS: 14 MSN: 63P ACCN: S08138 25X1

PHOTO: MENSURATION PERFORMANCE STANDARDS
WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 65

NPIC NO :
COMIREX NO:

CIA INFR IS10027K-77 AUG 77 [Redacted] SEC CLASS: 13 MSN: 4P ACCN: S081390 25X1

1972
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

GORKIY SHIPYARD 112 HYDROFOIL/ACV ACTIVITY UR 562142N 0435228E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 13-C
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

IMAGERY OF GORKIY SHIPYARD 112 FROM THE PAST FOUR YEARS WAS SEARCHED FOR ANY EVIDENCE OF NEW HYDROFOIL OR AIR CUSHION VEHICLE PRODUCTION. BUT PRODUCTION OF THESE, INCLUDING OLDER MODELS OF HYDROFOILS WHICH HAD BEEN IN SERIES PRODUCTION, HAD APPARENTLY CEASED IN LATE 1972. THE REPORT BRIEFLY REVIEWS THE ACV PRODUCTION AT THIS FACILITY AND DETAILS THE POSSIBLE REPAIR AND/OR MODIFICATION OF THE KASP-B. IT IS SPECULATED THAT THE FACILITY COULD BE ENGAGED IN THE CONSTRUCTION OF A LARGE ADVANCED TECHNOLOGY VESSEL.*

CIA INFR IS10069K-77 12 SEP 77 SEC CLASS: 13 MSN 10P ACCN: 5081391 25X1

CHANGHSINTIEN ARMORED VEHICLE DEV PLANT 618 CH 394900N 1161025E
WAC NO : 0381 BE/OBJ NO: NPIC NO : - 50-J8
IDHS CODE: EPF CAT : 35G COMIREX NO:

25X1
25X1

THE CHANG-HSIN-TIEN ARMORED VEHICLE DEVELOPMENT PLANT 618 IS THE PRIMARY PRODUCTION PLANT FOR THE CHINESE DESIGNED M-1967 ARMORED PERSONNEL CARRIER (APC). THE PLANT IS ALSO PRODUCING TYPE 59 57MM ANTI-AIRCRAFT ARTILLERY (AAA). THE APC'S WERE FIRST OBSERVED AT THE PLANT IN SEPTEMBER 1971 AND THE AAA WERE FIRST SEEN IN MARCH 1973.*

CIA INFR IS10020K-77 12 JUL 77 SEC CLASS: 13 MSN: 4P ACCN: 5081392 25X1

MOSKVA GUIDED MISSILE + SPACE RSCH CTR REUTOV UR 554547N 0375209E
WAC NO : 0167 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 : 0167 BE/OBJ NO: NPIC NO : - 58-N
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1

25X1
25X1

ANALYSIS OF SATELLITE IMAGERY REVEALS THAT THE MOSCOW GUIDED MISSILE AND SPACE RESEARCH CENTER, REUTOV CONTINUES TO BE INVOLVED IN AN SS-N-3/12 CLASS CRUISE MISSILE PROGRAM. DURING THE OCTOBER 1972 - FEBRUARY 1975 PERIOD PARTICULARLY, CONSIDERABLE MOVEMENT OF SS-N-3/12 SHIPPING CRATES WITHIN THE REUTOV FACILITY WAS OBSERVED. SINCE THEN ACTIVITY HAS DECLINED AND REMAINED AT A NEAR CONSTANT LEVEL UNTIL OCTOBER 1976 WHEN THERE WAS A SLIGHT INCREASE.*

25X1

1973
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

CIA INFR IS10047J-77 AUG 77 [] SEC CLASS: 25 MSN: [] 5P ACCN: S08139 25X1

SIVERSKIY T8955/1031Z SIGNAL EMITTER SEARCH	UR	5921 N 03002 E
WAC NO : 0153	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25	COMIREX NO:
SIVERSKIY ELECTRONICS FACILITY PROB	UR	592645N 0300710E
WAC NO : 0153	BE/OBJ NO:	NPIC NO : - 70-A1
IDHS CODE:	EPF CAT : 25	COMIREX NO:
SIVERSKIY AIRFIELD ELECTRONICS EQUIPMENT	UR	592120N 0300203E
WAC NO : 0153	BE/OBJ NO:	NPIC NO : - 70
IDHS CODE:	EPF CAT : 25H	COMIREX NO:

25X1
25X1
25X1
25X1

A DETAILED SEARCH OF THE IMAGERY THAT COVERS A 5-NAUTICAL-MILE-RADIUS AREA CENTERING ON SIVERSKIY AIRFIELD REVEALS THAT THERE IS NO ELECTRONICS EQUIPMENT IN THE AREA WHICH MATCHES THE POSTULATED PHYSICAL DESCRIPTION OR THE ELECTRICAL CHARACTERISTICS OF THE UNIDENTIFIED T8955/1031Z EMITTER. A ONE EYE AIR TRAFFIC SURVEILLANCE RADAR IS LOCATED AT SIVERSKIY AIRFIELD, AND A MODIFIED BAR LOCK AIR WARNING RADAR HAS BEEN AT SIVERSKIY AIR WARNING RADAR FACILITY SINCE AT LEAST OCTOBER, 1976. HOWEVER, THE PHYSICAL AND ELECTRICAL CHARACTERISTICS OF BOTH THE ONE EYE AND THE BAR LOCK ARE NOT COMPATIBLE WITH THE T8955/1031Z SIGNAL.

IT IS POSSIBLE THAT THE UNIDENTIFIED SIGNAL ORIGINATES IMMEDIATELY OUTSIDE THE SEARCH AREA AT THE SIVERSKIY RADAR TEST FACILITY, WHICH IS LOCATED ABOUT SIX NAUTICAL MILES NORTHEAST OF SIVERSKIY AIRFIELD. THERE ARE TWO 15-METER-DIAMETER RADOMES AT THE RADAR TEST FACILITY WHICH COULD HOUSE THE T8955/1031Z EMITTER.

CIA INFR IS10050K-77 24 AUG 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S08139 25X1

IZHEVSK SMALL ARMS PLANT 524 EXPANSION	UR	565157N 0531315E
WAC NO : 0155	BE/OBJ NO:	NPIC NO : - 3-K5
IDHS CODE:	EPF CAT : 356	COMIREX NO:

25X1
25X1

DURING THE 1968-1970 TIME PERIOD THE IZHEVSK SMALL ARMS PLANT 524 UNDERWENT A MAJOR EXPANSION. THIS EXPANSION INVOLVED THE CONSTRUCTION OF BOTH PRODUCTION AND ENGINEERING/ADMINISTRATION BUILDINGS AND THE TOTAL AVAILABLE FLOORSPACE AT PLANT 524 INCREASED FROM ABOUT 58,800 TO 78,800 SQUARE METERS. SINCE 1970, ONLY ABOUT 4,200 SQUARE METERS OF FLOORSPACE HAS BEEN ADDED.

THE 1968-1970 EXPANSION OF PLANT 524 WAS POSSIBLY TO ACCOMMODATE THE MANUFACTURE OF A NEW PRODUCT; HOWEVER, IT COULD ALSO HAVE BEEN TO INCREASE EXISTING PRODUCTION. ANALYSIS OF PHOTOGRAPHY HAS NOT REVEALED WHICH ALTERNATIVE IS CORRECT AND THERE IS NO PHOTOGRAPHIC EVIDENCE THAT THE PRODUCT(S) OF PLANT 524 IS

25X1

1974
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

MISSILE-RELATED. NO MISSILES, MISSILE COMPONENTS OR MISSILE-RELATED EQUIPMENT WERE IDENTIFIED ON THE AVAILABLE COVERAGE OF PLANT 524.

CIA INFR IS10023K-77 JUL 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S081396^{25X1}

NOGINSK MILITARY INSTALLATION CIVIL DEF REGT UR 555448N 0382743E
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1

BASED ON SEVERAL FEATURES PRESENT AT SOVIET CIVIL DEFENSE REGIMENTS, A CIVIL DEFENSE REGIMENT HAS BEEN IDENTIFIED 45 KM EAST OF MOSCOW AND 3 KM NORTH OF NOGINSK. PRESENT AT THIS INSTALLATION ARE AN OBSTACLE COURSE SPECIFICALLY DESIGNED FOR CIVIL DEFENSE TRAINING, VEHICLES AND ENGINEERING EQUIPMENT USED FOR CIVIL DEFENSE ACTIVITIES, AND A DEBRIS CLEARING TRAINING AREA.*

CIA INFR IS10025K-77 JUL 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S081397^{25X1}

KHIMKI MILITARY INSTALLATION CIVIL DEF REGT UR 555333N 0372044E
WAC NO : 0167 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 35A COMIREX NO:

25X1

A CIVIL DEFENSE REGIMENT HAS BEEN IDENTIFIED 4 KILOMETERS WEST OF KHIMKI, A MOSCOW SUBURB. THIS IDENTIFICATION IS BASED ON SEVERAL FEATURES NORMALLY PRESENT AT SOVIET CIVIL DEFENSE REGIMENTS. THESE FEATURES INCLUDE AN OBSTACLE COURSE SPECIFICALLY DESIGNED FOR CIVIL DEFENSE TRAINING, VEHICLES AND ENGINEERING EQUIPMENT USED FOR CIVIL DEFENSE ACTIVITIES, A DEBRIS CLEARING TRAINING AREA, AND A PROBABLE DECONTAMINATION TRAINING AREA.

CIA INFR IS10038K-77 29 JUL 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: S081398^{25X1}

MILITARY, SOVIET MILITARY EQUIP DELIVERIES SY
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, SOVIET MILITARY EQUIP DELIVERIES AG
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, SOVIET MILITARY EQUIP DELIVERIES LY
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, SOVIET MILITARY EQUIP DELIVERIES AO
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, SOVIET MILITARY EQUIP DELIVERIES CG
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

25X1

1975
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

MILITARY, SOVIET MILITARY EQUIP DELIVERIES	ET
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35
MILITARY, SOVIET MILITARY EQUIP DELIVERIES	MZ
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35
	NPIC NO :
	COMIREX NO:
	NPIC NO :
	COMIREX NO:

THIS MEMORANDUM SUMMARIZES A STUDY OF SELECTED MIDDLE EAST AND AFRICAN PORTS TO IDENTIFY DELIVERIES OF SOVIET MILITARY EQUIPMENT. THE INFORMATION WAS DERIVED FROM SATELLITE PHOTOGRAPHY OF THE PORTS FROM APRIL THROUGH JUNE 1977.

CIA INFR IS10063J-77 24 AUG 77 [] SEC CLASS: 13 MSN: 43P ACCN: S081395 25X1

MILITARY, 54TH ARMY WUHAN MILITARY REGION	CH
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35
	NPIC NO :
	COMIREX NO:

THE 54TH ARMY IS LOCATED IN THE NORTHERN PART OF THE WU-HAN MILITARY REGION (MR). THE ARMY HEADQUARTERS AND ITS SUPPORT UNITS ARE LOCATED IN THE VICINITY OF HSIEN-HSIANG, APPROXIMATELY 610 KILOMETERS NORTH OF THE CITY OF WU-HAN. THE ARMY HAS THREE DIVISIONS: THE 160TH, HEADQUARTERED NEAR HUI-HSIEN; THE 161ST, HEADQUARTERED IN CHIAO-TSO; AND THE 162ND, HEADQUARTERED IN AN-YANG. ONLY THE 162ND DIVISION HAS A TANK/ASSAULT GUN REGIMENT. INSTALLATIONS UNDER CONSTRUCTION IN TWO OF THE DIVISION AREAS MAY EVENTUALLY HOUSE SOME DIVISIONAL UNITS WHICH, TO DATE, ARE UNLOCATED.

CIA INFR IS10062K-77 29 AUG 77 [] SEC CLASS: 13 MSN: 8P ACCN: S08140 25X1

MOSKVA/LENINGRAD RADIO RELAY	LINE	UR 5545 N 03737 E	
WAC NO : 0167	BE/OBJ NO:	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
LENINGRAD/MOSKVA RADIO RELAY	LINE	UR 5954 N 03023 E	
WAC NO : 0153	BE/OBJ NO:	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
SAVELYEVO RADIO RELAY STATION		UR 560803N 0370420E	
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 97-J1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
KLIN RADIO RELAY STATION		UR 561948N 0364250E	
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 27-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
GORODNYA RADIO RELAY STATION		UR 564155N 0362015E	
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 114-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
KALININ RADIO RELAY STATION		UR 565018N 0355335E	
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 20-C5	25X1

1976
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KALININ RADIO RELAY + TV BROADCAST CENTER	UR 565633N 0354342E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 20-L1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
KALININ RADIO RELAY + TV BROADCAST CENTER	UR 565633N 0354342E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 20-L1	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO: []	25X1
LIKHOVLAVL RADIO RELAY STATION	UR 570720N 0352755E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 60-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
TORZHOK RADIO RELAY STATION	UR 565836N 0345459E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 60-C2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
NOVOLISINO RADIO RELAY STATION	UR 594040N 0304200E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 83-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
NOVGOROD TV RELAY + FM BROADCAST STATION	UR 583117N 0311716E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 46-A3	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO: []	25X1
LYURBAN RADIO RELAY STATION	UR 592048N 0311505E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 103-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
CHUDOVO RADIO RELAY STATION	UR 590745N 0314015E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 186-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
KRASNY UDARNIK RADIO RELAY STATION	UR 585125N 0312915E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 221	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
MALAYA VISHERA RADIO RELAY STATION	UR 585035N 0321350E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 177-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
TORBINO RADIO RELAY STATION	UR 583512N 0325320E		
WAC NO : 0153	BE/OBJ NO: []	NPIC NO : - 192-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
BOROVICHI RADIO RELAY STATION	UR 582247N 0335528E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 128-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
OKULOVKA RADIO RELAY STATION	UR 582215N 0331740E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 176	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
UGLOVKA RADIO RELAY STATION	UR 581430N 0332945E		
WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 72-H5	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1

1977

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

LYKOSHINO RADIO RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 580615N 0334320E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 175	25X1
			COMIREX NO:	25X1
VALDAY RADIO RELAY + TV RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 575840N 0331520E	
	IDHS CODE: []	EPF CAT : 25B	NPIC NO : - 61-D	25X1
			COMIREX NO:	25X1
VALDAY RADIO RELAY + TV RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 575840N 0331520E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : 61-D	25X1
			COMIREX NO:	25X1
BOLOGOYE RADIO RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 575340N 0340325E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 4-D1	25X1
			COMIREX NO:	25X1
VISHNIY VOLOCHEK RADIO RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 5736 N 03434 E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO :	
			COMIREX NO:	25X1
SPIROVO RADIO RELAY STATION	WAC NO : 0154	BE/OBJ NO: []	UR 572520N 0350000E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 130-A	25X1
			COMIREX NO:	25X1
KUVSHINOVO RADIO RELAY STATION ESE	WAC NO : 0154	BE/OBJ NO: []	UR 570100N 0341610E	
	IDHS CODE: []	EPF CAT : 25D	NPIC NO : - 135	25X1
			COMIREX NO: []	25X1

THIS MEMORANDUM PROVIDES AN ANALYSIS OF THE RADIO-RELAY LINE BETWEEN MOSKVA AND LENINGRAD, USSR, EXCLUDING THE MICROWAVE ANTENNAS WITHIN THE TWO CITIES. A TABLE LISTS THE MICROWAVE ANTENNAS FOUND ALONG THIS LINE, THEIR COORDINATES, AZIMUTHS, DISTANCE BETWEEN CORRESPONDENTS, AND THE HEIGHTS OF THE ANTENNAS AND THE TOWERS. AN ATTACHED MAP SHOWS THE LOCATIONS OF THE ANTENNAS.*

CIA INFR IS10036K-77 JUL 77 [] SEC CLASS: 13 MSN: 8P ACCN: S0814025X1

LENINGRAD RADIO SCIENTIFIC RESEARCH INSTITUTE	WAC NO : 0153	BE/OBJ NO: []	UR 5954 N 03023 E	
	IDHS CODE: []	EPF CAT : 25E	NPIC NO :	25X1
			COMIREX NO:	

THIS MEMORANDUM PRESENTS A BRIEF DESCRIPTION OF THE ALL-UNION SCIENTIFIC RESEARCH INSTITUTE FOR RADIO APPARATUS (VNIIRA) AND ITS ASSOCIATED ELECTRONICS TEST ACTIVITY AS OBSERVED ON SATELLITE PHOTOGRAPHY BETWEEN JANUARY 1973 AND SEPTEMBER 1976. VNIIRA WAS STUDIED IN AN EFFORT TO IDENTIFY SPECIFIC RADARS AND SUPPORT EQUIPMENT THAT AN EMIGRE REPORTED BEING DEVELOPED AND TESTED THERE. ALTHOUGH NUMEROUS RADARS AND SUPPORT VEHICLES WERE VISIBLE IN THE OPEN TEST AREA OF THE INSTITUTE, NONE OF THE ELECTRONICS EQUIPMENT COULD BE ASSOCIATED WITH A SPECIFIC SYSTEM. IN PARTICULAR, NO EQUIPMENT WAS SEEN WHICH COMPARED WITH ANY SOVIET DEVICES WHICH ARE KNOWN OR SUSPECTED TO HAVE INCLUDED LASERS IN THEIR OPERATION.

CIA INFR IS10049K-77 AUG 77 [] SEC CLASS: 13 MSN: 8P ACCN: S0814025X1

1978
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

ELECTRONICS, SOVIET GCA/ILS SYSTEM DEPLOYED	SY
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
ELECTRONICS, SOVIET GCA/ILS SYSTEM DEPLOYED	EG
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
ELECTRONICS, SOVIET GCA/ILS SYSTEM DEPLOYED	IZ
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
AIRFIELDS, FLOGGER MIG-23 ASSOC FACIL SEARCH	SY
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
AIRFIELDS, FLOGGER MIG-23 ASSOC FACIL SEARCH	EG
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :
AIRFIELDS, FLOGGER MIG-23 ASSOC FACIL SEARCH	IZ
WAC NO :	NPIC NO :
IDHS CODE :	COMIREX NO :

SATELLITE PHOTOGRAPHY OF SELECTED AIRFIELDS IN THE MIDDLE EAST WAS REVIEWED TO IDENTIFY THE SOVIET SVOD GROUND CONTROLLED APPROACH/INSTRUMENT LANDING SYSTEM (GCA/ILS) AND TO DETERMINE IF THIS SYSTEM OR ANY OTHER SYSTEM, GROUND SUPPORT EQUIPMENT OR FACILITY, IS UNIQUE TO FLOGGER OPERATIONS. THE PHOTOGRAPHY COVERED A PERIOD OF SEVERAL MONTHS BEFORE AND AFTER THE ARRIVAL OF THE FLOGGER (MIG-23).

CIA INFR IS10059K-77 15 SEP 77 [] SEC CLASS: 13 MSN: 11P ACCN: 5081403 25X1

PETROPAVLOVSK SHIPYARD + NAVAL BASE EXPNS	UR 525358N 1582607E
WAC NO : 0194	NPIC NO : - 12-G
IDHS CODE: []	COMIREX NO: []
PETROPAVLOVSK SHIPYARD + NAVAL BASE EXPNS	UR 525358N 1582607E
WAC NO : 0194	NPIC NO : - 12-G
IDHS CODE: []	COMIREX NO: []

25X1
25X1-1
25X1
25X1

THE SELDEVAYA NAVAL REPAIR YARD COMPLEX IS LOCATED ALONG THE SOUTH AND WEST SHORE OF SELDEVAYA BAY ABOUT 20 KILOMETERS SOUTHWEST OF THE CITY OF PETROPAVLOVSK. IT IS A MAJOR YARD FOR THE REPAIR AND OVERHAUL OF SURFACE SHIPS AND SOME OF THE SUBMARINES ASSIGNED TO THE SOVIET PACIFIC FLEET. IT IS ALSO THE PRIMARY NAVAL YARD SERVING THE PETROPAVLOVSK NAVAL COMPLEX. THE MAIN PART OF THE INSTALLATION CONTAINS MAJOR SHORE AND BERTHING FACILITIES FOR SHIPS AND SUBMARINES. A SECOND AREA CONSISTS OF TWO FINGER PIERS AND A FLOATING DOCK USED FOR OUT OF WATER REPAIR. THERE ARE NO SHORE FACILITIES SUPPORTING THIS AREA. THE REPAIR YARD HAS BEEN IN OPERATION SINCE WORLD WAR II AND HAS BEEN UNDERGOING CONTINUED EXPANSION SINCE THE EARLY 1960'S. THE EXPANSION HAS BEEN SYSTEMATIC AND WELL PLANNED AND HAS GRADUALLY UPGRADED THE YARD FROM A SECONDARY TO PRIMARY OVERHAUL AND REPAIR FACILITY. WHEN CURRENT EXPANSION IS COMPLETE, PROBABLY IN 1978 OR

1979
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25X1

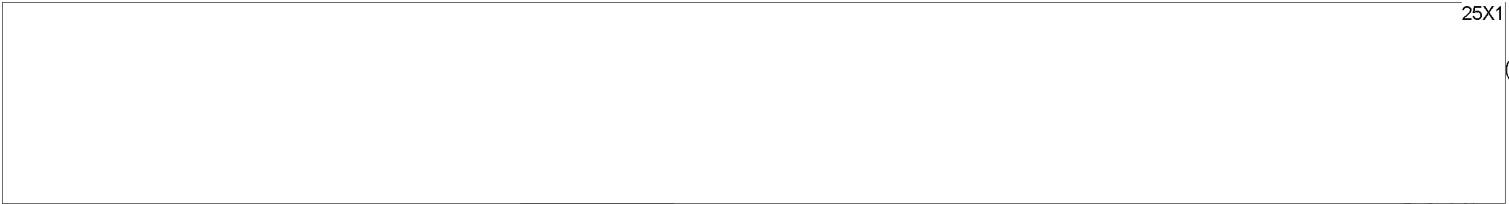


TOP SECRET CHESS RUFF



25X1

1979, THE YARD SHOULD BE CAPABLE OF SUPPORTING ALL MODERN SOVIET NAVAL FORCES EXCEPT AIRCRAFT CARRIERS. THIS WILL INCLUDE MODERN BALLISTIC MISSILE SUBMARINES, WHICH MUST NOW TRANSIT TO THE VLADIVOSTOK AREA FOR ALL EXCEPT MINOR REPAIR.



25X1

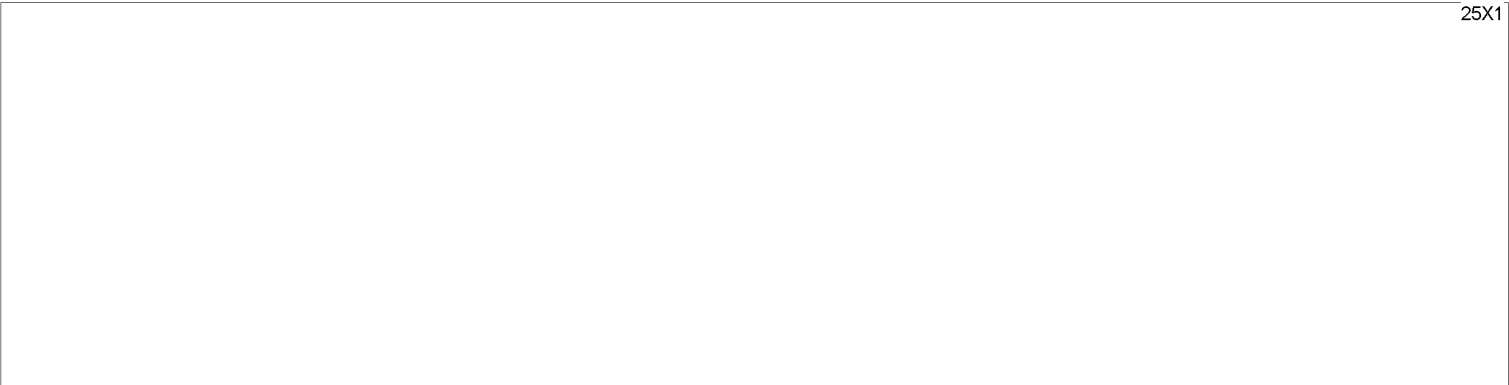
CIA INFR IS10058K-77 AUG 77 SEC CLASS: 13 MSN: 7P ACCN: 508140

SHIPS, NAVAL SHIP PROD 9 APR 77 - 15 JUN 77 CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

THIS REPORT PROVIDES AN ANALYSIS OF CHINESE NAVAL SHIP PRODUCTION IT INCLUDES ANALYSIS OF SUBMARINES, SURFACE SHIPS, MISSILE BOATS, NAVAL AUXILIARIES, OCEANOGRAPHIC RESEARCH SHIPS AND SELECTED COMMERCIAL VESSELS.*

25X1

25X1



25X1

1980
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25X1

TOP SECRET CHESS RUFF

25X1

PERIOD.

CIA INFR TSD147-77 15 SEP 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 3P ACCN: S0814025X1

25X1

[REDACTED]

DEBRECEN AIRFIELD SOVIET PHOTO LAB SEARCH HU 472928N 0213656E
WAC NO : 0251 BE/OBJ NO: [REDACTED] NPIC NO : - 33 25X1
IDHS CODE: [REDACTED] EPF CAT : 65 COMIREX NO: [REDACTED] 25X1
DEBRECEN AIRFIELD SOVIET PHOTO LAB SEARCH HU 472928N 0213656E
WAC NO : 0251 BE/OBJ NO: [REDACTED] NPIC NO : - 33 25X1
IDHS CODE: [REDACTED] EPF CAT : 05A COMIREX NO: [REDACTED] 25X1

CIA INFR IS10071K-77 07 SEP 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 3P ACCN: S0814025X1

PERVOMAYSK SSM COMPLEX SS-19 REENTRY VEH CAN UR 481224N 0305416E
WAC NO : 0233 BE/OBJ NO: [REDACTED] NPIC NO : - 44-C1 25X1
IDHS CODE: [REDACTED] EPF CAT : 40A COMIREX NO: [REDACTED] 25X1
MISSILES, SS-19 REENTRY VEHICLE CAN MSRMTS UR
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 40A COMIREX NO: [REDACTED]

WHAT IS BELIEVED TO BE A REENTRY VEHICLE (RV) CANISTER FOR ONE OF THE SIX RVs ON THE SS-19 MOD 1 (MIRV) HAS BEEN IDENTIFIED IN THE NUCLEAR PAYLOAD HANDLING FACILITY (NPHF) AT THE PERVOMAYSK SSM COMPLEX. THIS CANISTER WAS FIRST SEEN AT THIS NPHF [REDACTED]

25X1

CIA INFR IS10079K-77 15 SEP 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 5P ACCN: S0814025X1

MISSILES, BOW + ARROW ANTENNAS MENSURATION UR
WAC NO : [REDACTED] BE/OBJ NO: [REDACTED] NPIC NO : [REDACTED]
IDHS CODE: [REDACTED] EPF CAT : 25C COMIREX NO: [REDACTED]

THE BOW AND ARROW TRACKING SYSTEM IS USED TO DETERMINE THE RANGE, RANGE RATE, ANGULAR RATE AND ANGULAR POSITION OF SOVIET MISSILES. THE SYSTEM CONSISTS OF AN INTERFEROMETER WITH TWO 20,000-FOOT-LONG LEGS AT A RIGHT ANGLE TO EACH OTHER. ALL FIVE OF THE KNOWN BOW AND ARROW TRACKING INSTALLATIONS ARE LOCATED AT MISSILE TEST RANGES. TWO ARE AT THE TYURATAM MISSILE TEST CENTER--ONE AT THE RANGEHEAD, THE OTHER 400NM DOWNRANGE AT TRACKING FACILITY TT05. TWO MORE BOW AND ARROW INSTALLATIONS ARE LOCATED AT PLESetsk MISSILE TEST CENTER--ONE AT THE RANGEHEAD, THE OTHER 650NM DOWNRANGE AT VORKUTA. THE FIFTH BOW AND ARROW INSTALLATION IS AT THE KAPUSTIN YAR MISSILE TEST CENTER. THE SAME NUMBER AND LOCATION OF ANTENNAS AND

25X1

1982
TOP SECRET CHESS RUFF

[REDACTED]

TOP SECRET CHESS RUFF

25X1
25X1

ANTENNA SUPPORT BUILDINGS CAN BE FOUND AT EACH OF THE FIVE BOW AND ARROW INSTALLATIONS. ALL FIVE INSTALLATIONS ARE COMPLETE EXCEPT FOR THE VORLEUTA BOW AND ARROW WHICH WAS STILL UNDER CONSTRUCTION

25X1

CIA INFR IS10072K-77 02 SEP 77 [] SEC CLASS: 13 MSN: 3P ACCN: S081411

MILITARY, STRENGTH INCREASE WESTERN MD : EG
WAC NO : BE/OBJ NO : NPIC NO :
IDHS CODE : EPF CAT : 35 COMIREX NO :

THE EGYPTIANS HAVE MORE THAN DOUBLED THEIR MILITARY STRENGTH IN THE WESTERN MILITARY DISTRICT (WMD) SINCE THE EARLY JULY 1977 CONFRONTATION WITH THE LIBYANS. MOST OF THE INCREASE IS PROVIDED BY UNITS THAT WERE PREVIOUSLY DEPLOYED ALONG THE SUEZ CANAL FRONT. THE REDEPLOYMENT OF THESE UNITS--AN ARMORED BRIGADE, A MECHANIZED INFANTRY BRIGADE, AND TWO SA-6 MISSILE BRIGADES (40 LAUNCHERS)--HAS WEAKENED EGYPT'S DEFENSES ALONG THE CANAL.

CIA INFR IS10084J-77 12 SEP 77 [] SEC CLASS: 24 MSN: 5P ACCN: S081412

MILITARY, ARMORED DIVISION NEW SOVIET EQUIP IZ
WAC NO : BE/OBJ NO : NPIC NO :
IDHS CODE : EPF CAT : 35 COMIREX NO :

THE IRAQIS ARE IN THE PROCESS OF FORMING A NEW ARMORED DIVISION. ONE ARMORED BRIGADE OF THE RECENTLY ORGANIZED IRAQI 9TH ARMORED DIVISION WAS FORMED DURING 1976, AND MAY NOW BE GARRISONED AT AN INSTALLATION SOUTH OF BAGHDAD. SINCE JANUARY 1977 THE IRAQIS HAVE BEEN FORMING A SECOND ARMORED BRIGADE, PROBABLY ALSO PART OF THE NEW 9TH DIVISION, AT AN INSTALLATION NEAR BAGHDAD. SOVIET TANK AND EQUIPMENT DELIVERIES TO IRAQ HAVE BEEN USED TO FORM BOTH OF THESE BRIGADES. IN ADDITION, TWO NEW MILITARY INSTALLATIONS, ONE NORTH AND ONE SOUTH OF BAGHDAD, ARE IN AN ADVANCED STAGE OF CONSTRUCTION. EACH OF THE NEW INSTALLATIONS WILL BE CAPABLE OF HOUSING A BRIGADE, POSSIBLY OF THE NEW 9TH DIVISION. THE ADDITION OF ANOTHER ARMORED DIVISION WILL GIVE IRAQ A TOTAL OF FOUR ARMORED DIVISIONS AND TWO MECHANIZED INFANTRY DIVISIONS.

NPIC MEMO [] 22 SEP 77 [] SEC CLASS: 14B MSN: 1213 17P ACCN: S081413

ELECTRONICS, BOW + ARROW INTERFEROMETER BLDGS UR
WAC NO : BE/OBJ NO : NPIC NO :
IDHS CODE : EPF CAT : 25C COMIREX NO :
TYURATAM MTC RANGEHEAD TRACKING FAC BOW/ARROW UR 454230N 0632020E
WAC NO : 0246 BE/OBJ NO : NPIC NO : - 20-B1
IDHS CODE : EPF CAT : 25C COMIREX NO :
PLESETSK MTC RANGEHEAD TRACKING FAC BOW/ARROW UR 624645N 0402010E
WAC NO : 0102 BE/OBJ NO : NPIC NO : - 27-M3
IDHS CODE : EPF CAT : 25C COMIREX NO :
KAPUSTIN YAR MTC RANGEHEAD TRKG FAC BOW/ARROW UR 483858N 0454538E

25X1

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25X1

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25X1

1983
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25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0235	BE/OBJ NO: []	NPIC NO : - 10-D3
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
TYURATAM MTC TRACKING FACILITY 5 BOW + ARROW	UR 515333N 0672113E	
WAC NO : 0237	BE/OBJ NO: []	NPIC NO : - 1A
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
VORKUTA ESV TRACKING FACILITY BOW + ARROW	UR 673330N 0640941E	
WAC NO : 0094	BE/OBJ NO: []	NPIC NO : - 4-K3
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

25X1

25X1

25X1

25X1

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25X1

THIS REPORT PROVIDES IMAGERY OF THE CENTRAL CONTROL BUILDING AND THE EXTENDED BASE LINES TERMINAL ANTENNA BUILDINGS OF THE BOW AND ARROW VT-3 INTERFEROMETER SITES AT TYURATAM MTC, PLESETSK MTC, KAPUSTIN YAR MTC, TYURATAM TRACKING FACILITY 5, AND VORKUTA ESV TRACKING FACILITY. AZIMUTHS BETWEEN THE CENTRAL CONTROL BUILDING AND THE TERMINAL BUILDINGS AT EACH SITE ARE PLOTTED ON THE PHOTOGRAPHS INCLUDED IN THE REPORT.

DIA IIM 5B1-57406-77 SEP 77 [] SEC CLASS: 14D MSN: [] 16P

ACCN: 50814125X1

SRETENSK MILITARY BARRACKS AL1 + HQ MRD	UR 521519N 1174349E
WAC NO : 0199	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 35A
	NPIC NO : - 7-A
	COMIREX NO: []

25X1

25X1

25X1

DIA IIM 5B1-57505-77 SEP 77 [] SEC CLASS: 14B MSN: [] 3P

ACCN: 50814125X1

NIKOLAYEV AMMUNITION STORAGE FACILITY	UR 470055N 0320055E
WAC NO : 0250	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 35F
	NPIC NO : - 46-S7
	COMIREX NO: []

25X1

25X1

DIA IIM 5B1-57506-77 SEP 77 [] SEC CLASS: 14B MSN: [] 2P

ACCN: 50814125X1

PETERVASARA AMMUNITION STORAGE FACILITY 502	HU 480208N 0200403E
WAC NO : 0232	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 35F
	NPIC NO : []
	COMIREX NO: []

25X1

25X1

DIA IIM 5B1-57522-77 SEP 77 [] SEC CLASS: 14B MSN: [] 4P

ACCN: 50814125X1

SIMFEROPOL ARMY BARRACKS FEODOSIYA AL9	UR 445825N 0340825E
WAC NO : 0250	BE/OBJ NO: []
	NPIC NO : - 65-J2

25X1

25X1

1984
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TOP SECRET CHESS RUFF

25X1
25X1

DIA IIM 5B1-57523-77 SEP 77 [] EPF CAT : 35A COMIREX NO: []
SEC CLASS: 14B MSN: [] 3P ACCN: S081419 25X1
25X1

GREBENKA RAILROAD CONST ENGINEER BKS NZHM-56 UR 500815N 0322730E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 45-A3 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA IIM 5B3-57554-77 22 SEP 77 [] EPF CAT : 35A COMIREX NO: []
SEC CLASS: 13 MSN: [] 2P ACCN: S081420 25X1

NABEREZHNYE CHELNY MOTOR VEH PLT CIV DEF FAC UR 554130N 0522730E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 35-D 25X1
IDHS CODE: [] EPF CAT : 85A COMIREX NO: [] 25X1
NABEREZHNYE CHELNY MOTOR VEH PLT CIV DEF FAC UR 554130N 0522730E
WAC NO : 0165 BE/OBJ NO: [] NPIC NO : - 35-D 25X1
IDHS CODE: [] EPF CAT : 10A COMIREX NO: [] 25X1

DIA IIM 5B3-57562-77 20 SEP 77 [] EPF CAT : 35A COMIREX NO: []
SEC CLASS: 13 MSN: [] 2P ACCN: S081422 25X1

KAMYSHIN AIRFIELD NW UR 501218N 0451218E
WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 8-A 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

1985
TOP SECRET CHESS RUFF

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IDHS CODE: EPF CAT : 15A COMIREX NO:
 NPIC MIPIR CA0081-77 23 SEP 77 SEC CLASS: 14 MSN: 147P ACCN: S0814325X1
 MIPIR 077/081
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 15A COMIREX NO:



25X1

NPIC IIR IIR064-77 20 SEP 77 SEC CLASS: 14B MSN: 4P ACCN: S0814425X1

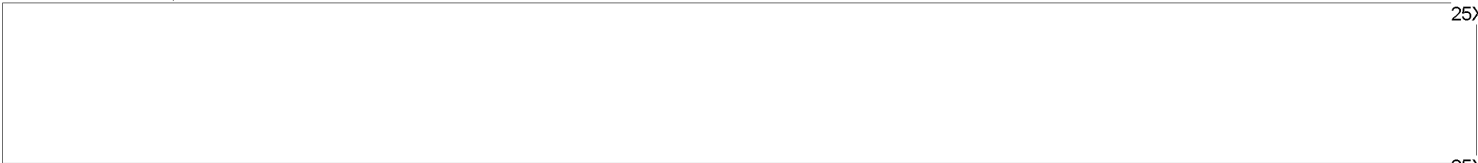
BYKHOV AIRFIELD BACKFIRE RELATED CONSTRUCTION UR 533113N 0301142E
 WAC NO : 0167 BE/OBJ NO: NPIC NO : - 10
 IDHS CODE: EPF CAT : 05A COMIREX NO:

25X1

25X1

NEW BACKFIRE-RELATED ACTIVITY WAS OBSERVED AT BYKHOV AIRFIELD, USSR A SOVIET NAVAL
 AVIATION (SNA) INSTALLATION IN THE BALTIC SEA FLEET AREA AT LEAST 11
 BACKFIRE B AIRCRAFT (A NEW HIGH COUNT) AND ADDITIONAL CONSTRUCTION ACTIVITY IN THE WESTERN DISPERSAL AREA
 WERE OBSERVED IN THE CLOUD-FREE AREAS OF THE AIRFIELD.

25X1



25X1

1988
 TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
20A1

25X1

CIA BIIR RCS13-0022-77 SEP 77 [] SEC CLASS: 13 MSN: [] 9P ACCN: S081443 25X1

INDUSTRY: IRON + STEEL PLANTS FUCHIENSHENG	CH
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 30C
FUWEN IRON PLANT	NPIC NO : []
WAC NO : 0498	COMIREX NO: []
IDHS CODE: []	CH 265845N 1174445E
LUNGYEN IRON + STEEL PLANT	NPIC NO : []
WAC NO : 0498	COMIREX NO: []
IDHS CODE: []	CH 250340N 1170310E
SANMING IRON + STEEL PLANT	NPIC NO : - 32-D3
WAC NO : 0498	COMIREX NO: []
IDHS CODE: []	CH 261538N 1173656E
	NPIC NO : - 67-A
	COMIREX NO: []

25X1
25X1
25X1
25X1
25X1

IN LATE 1976 THERE WERE THREE PLANTS IN FUKIEN PROVINCE ENGAGED IN THE PRODUCTION OF IRON, STEEL, AND ROLLED STEEL PRODUCTS. TWO ARE PIG IRON PLANTS AND ONE IS AN IRON AND STEEL PLANT. THERE ARE TWO MEDIUM AND THREE SMALL BLAST FURNACES AT THE PLANTS THAT ARE CAPABLE OF PRODUCING AN ESTIMATED 1,050 METRIC TONS OF PIG IRON PER DAY. A BASIC OXYGEN FURNACE (BOF) BUILDING AND A SIDE-BLOWN CONVERTER BUILDING ARE IN USE IN THE PROVINCE. IN ADDITION, THERE ARE THREE ROLLING MILLS WITH A TOTAL ROOF COVER OF APPROXIMATELY 22,980 SQUARE METERS.

CONSTRUCTION ACTIVITY WAS EVIDENT AT TWO PLANTS. A ROLLING MILL WAS UNDER CONSTRUCTION AT SAN-MING AND A SMALL BLAST FURNACE WAS UNDER CONSTRUCTION AT FU-WEN. LUNG-YEN IRON PLANT AND SAN-MING IRON AND STEEL PLANT WERE OPERATING WHEN SEEN ON THE LATEST AVAILABLE PHOTOGRAPHY. FU-WEN IRON PLANT DID NOT APPEAR TO BE OPERATING WHEN LAST SEEN.

THIS REPORT SUMMARIZES THE PRODUCTION FACILITIES AT EACH PLANT AND PROVIDES ANNOTATED PHOTOGRAPHS OF

1989
TOP SECRET CHESS RUFF

25X1

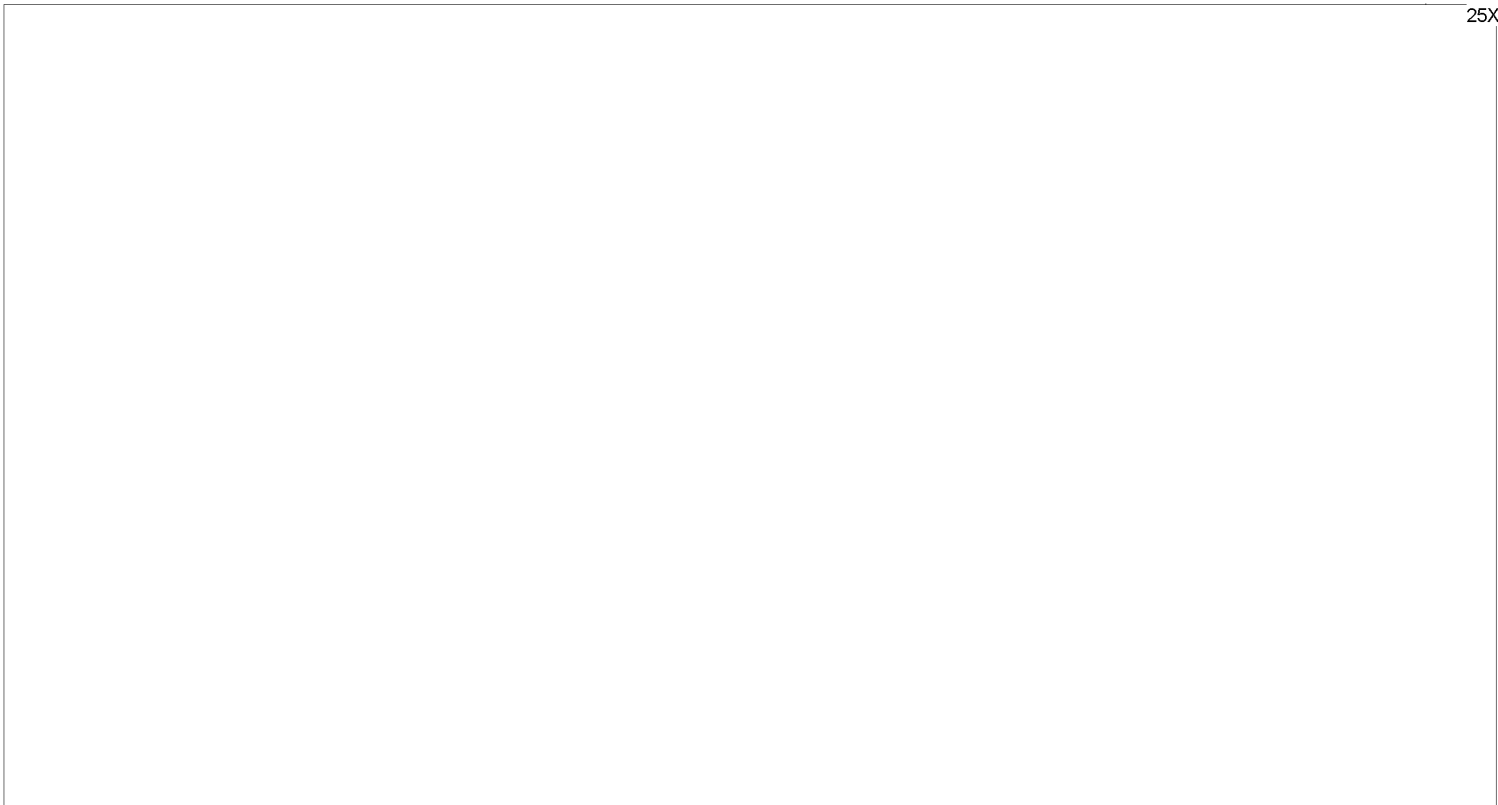


TOP SECRET CHESS RUFF



25X1:1

TWO PLANTS. A MAP SHOWING PLANT LOCATIONS IS ALSO INCLUDED. THE CUTOFF DATE FOR INFORMATION IN THIS REPORT IS NOVEMBER 1976.



25X1

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1990
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF

25X1
25X1

CIA BIIR RCS13-0010-77 SEP 77 SEC CLASS: 05C MSN: 8P ACCN: S081447

CHEREPOVETS NITROGEN FERTILIZER PLANT UR 590915N 0374940E
WAC NO : 0154 BE/OBJ NO: NPIC NO : - 8-A2
IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1
25X1

THE CHEREPOVETS NITROGEN FERTILIZER PLANT PRODUCES NITROGEN FERTILIZER AND A RESIN FEEDSTOCK. ITS MAIN PRODUCTS INCLUDE AMMONIA, AMMONIUM NITRATE FERTILIZER, NITRIC ACID, AND POSSIBLY ETHYLBENZENE (A RESIN FEEDSTOCK).

CONSTRUCTION OF THE PLANT'S FIRST PRODUCTION AREAS WAS COMPLETED IN 1971, BUT OPERATION DID NOT APPEAR TO BEGIN UNTIL 1972. DURING THE 1971-75 FIVE-YEAR PLAN, A POSSIBLE ETHYLBENZENE PLANT WAS ADDED. FUTURE EXPANSION WILL REPORTEDLY INCLUDE A KELLOGG AMMONIA PLANT WHICH MAY HAVE BEEN IN TOO EARLY A STAGE OF CONSTRUCTION TO BE IDENTIFIED ON MARCH 1976 PHOTOGRAPHY.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE PLANT AND A TABLE THAT SUMMARIZES THE PRODUCTION AREAS AND THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE PLANT.

25X1

CIA BIIR RCS13-0015-77 SEP 77 SEC CLASS: 05C MSN: 6P ACCN: S081449

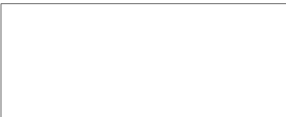
KRASNOURALSK CHEMICAL FERTILIZER PLANT 758 UR 582058N 0600332E
WAC NO : 0156 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 30F COMIREX NO:

25X1
25X1

THE MAIN PRODUCT OF THE KRASNOURALSK CHEMICAL FERTILIZER PLANT 758 IS TRIPLE SUPERPHOSPHATE FERTILIZER.

1991
TOP SECRET CHESS RUFF

25X1



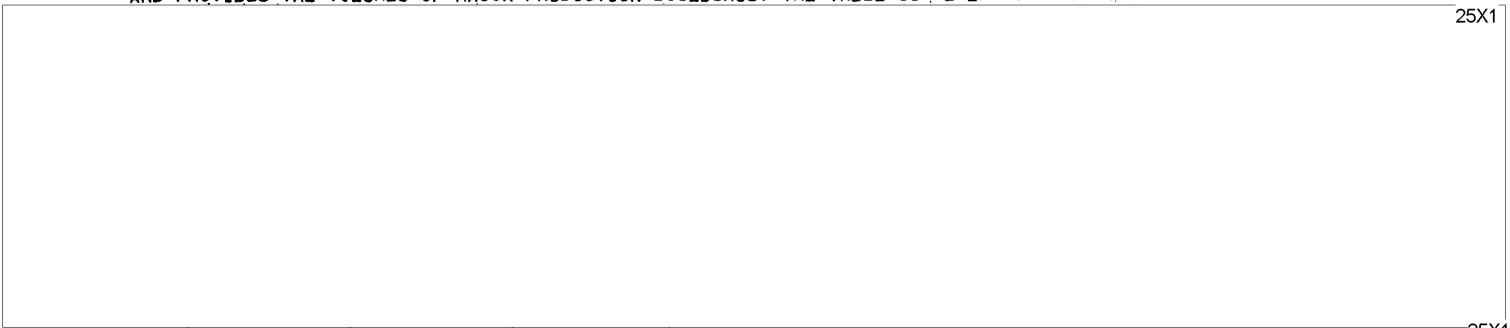
TOP SECRET CHESS RUFF



25X1
25X1

IT ALSO PRODUCES SULFURIC ACID AND PHOSPHORIC ACID AS FEEDSTOCKS FOR FERTILIZER PRODUCTION.
 THE FERTILIZER PLANT WAS BUILT, IN THE EARLY 1950S, NEXT TO THE KRASNOURALSK COPPER WORKS TO EXPLOIT THE SULFUR DIOXIDE GAS PRODUCED AT THE WORKS AS A BY-PRODUCT OF COPPER SMELTING. THE FERTILIZER PLANT PROCESSES THE SULFUR DIOXIDE INTO SULFURIC ACID, A FEEDSTOCK IN TRIPLE SUPERPHOSPHATE PRODUCTION. FOLLOWING A PERIOD OF EXPANSION AND A SWITCH FROM PRODUCING SINGLE SUPERPHOSPHATE FERTILIZER TO TRIPLE SUPERPHOSPHATE FERTILIZER IN THE EARLY TO MID-1960S, THE SOVIETS BEGAN A PROGRAM OF MODERNIZATION AND INTRODUCED NEW PRODUCTION METHODS AT THE PLANT. DURING THE 1971-75 FIVE YEAR PLAN, NO NEW FACILITIES WERE ADDED BUT MODERNIZATION, WHICH REPORTEDLY ALMOST TRIPLED FERTILIZER PRODUCTION, CONTINUED.
 THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE PLANT AND A TABLE THAT SUMMARIZES ITS PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE PLANT.

25X1



NPIC MEMO [redacted] 28 SEP 77 [redacted] SEC CLASS: 14D MSN: [redacted] 3P ACCN: S08145 [redacted] 25X1

CHITA RADIO RELAY STATION NW	UR 520715N 1131630E	
WAC NO : 0199	NPIC NO : - 2-V9	25X1
IDHS CODE: [redacted]	COMIREX NO: [redacted]	25X1
BE/OBJ NO: [redacted]		
EPF CAT : 25D		
DARASUN RADIO RELAY STATION	UR 514100N 1135000E	
WAC NO : 0201	NPIC NO : - 24-D	25X1
IDHS CODE: [redacted]	COMIREX NO:	25X1
BE/OBJ NO: [redacted]		
EPF CAT : 25D		
DOGVOY RADIO RELAY STATION GOAL POST	UR 511806N 1142515E	
WAC NO : 0201	NPIC NO : - 78	25X1
IDHS CODE: [redacted]	COMIREX NO:	25X1
BE/OBJ NO: [redacted]		
EPF CAT : 25D		
INGODA RADIO RELAY STATION	UR 515055N 1130520E	
WAC NO : 0201	NPIC NO : - 2-B	25X1
IDHS CODE: [redacted]	COMIREX NO:	25X1
BE/OBJ NO: [redacted]		
EPF CAT : 25D		
KARYMSKOYE RADIO RELAY + RADCOM RCVR STA NW	UR 513820N 1141850E	
WAC NO : 0201	NPIC NO : - 16-B	25X1
BE/OBJ NO: [redacted]		

1992
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25A1

IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
SPOKOYNNY RADIO RELAY STATION		UR 510304N 1144950E
WAC NO : 0201	BE/OBJ NO: []	NPIC NO : - 76
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
URULGA RADIO RELAY STATION		UR 514712N 1144337E
WAC NO : 0201	BE/OBJ NO: []	NPIC NO : - 27
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
RAZMAKHNINO RADIO RELAY STATION		UR 514701N 1153023E
WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 15-B
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
OLOVYANNAYA RADIO RELAY STATION PROB		UR 505110N 1152955E
WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 77-C1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
ORTUY RADIO RELAY STATION		UR 505530N 1153436E
WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 77-C
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
KHADABULAK RADIO RELAY STATION		UR 503740N 1161600E
WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 7-A
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
KURORT DARASUN RADIO RELAY STATION		UR 511238N 1134225E
WAC NO : 0201	BE/OBJ NO: []	NPIC NO : - 12
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
MATUSOVO RADIO RELAY STATION		UR 513015N 1161310E
WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 92
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
MOGZON RADIO RELAY STATION PROB		UR 514612N 1115924E
WAC NO : 0201	BE/OBJ NO: []	NPIC NO : - 68
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []
MERCHINSK RADIO RELAY STATION		UR 515620N 1163310E
WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 81-C3
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []

25X1

25X1

25A1

25X1

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25X1

1993

TOP SECRET CHESS RUFF

25X1

NPIC MEMO [] 15 APR 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S081453

25X1
25A1

INZA ARMY BARRACKS UPGRADING	POSS SEARCH	UR 535127N 0461910E
WAC NO : 0166	BE/OBJ NO: []	NPIC NO : - 118
IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []

25X1

25A1

NPIC MEMO [] 27 APR 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S081454

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1



TOP SECRET CHESS RUFF



25X1

NEZHIN AIRFIELD BACKFIRE SEARCH

WAC NO : 0233

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]

EPF CAT : 05A

UR 510519N 0315207E

NPIC NO : - 40

COMIREX NO: [redacted]

NPIC MEMO



06 MAY 77



SEC CLASS: 13

MSN:

2P

ACCN: S0814525X1

AIRCRAFT, BEAR B/C TU-95 MODIFIED SEARCH

WAC NO :

IDHS CODE:

BE/OBJ NO:

EPF CAT : 05

UR

NPIC NO :

COMIREX NO:

NPIC MEMO



20 MAY 77



SEC CLASS: 13

MSN:

2P

ACCN: S0814525X1

STRYY AIRFIELD RAIL CARS

WAC NO : 0232

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]

EPF CAT : 05A

UR 491443N 0234726E

NPIC NO : - 186

COMIREX NO: [redacted]

STRYY AIRFIELD RAIL CARS

WAC NO : 0232

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]

EPF CAT : 85B

UR 491443N 0234726E

NPIC NO : - 186

COMIREX NO: [redacted]

NPIC MEMO



JUL 77



SEC CLASS: 24

MSN:

2P

ACCN: S0814525X1

ELECTRONICS, ANTENNAS HARDENED SEARCH

WAC NO :

IDHS CODE:

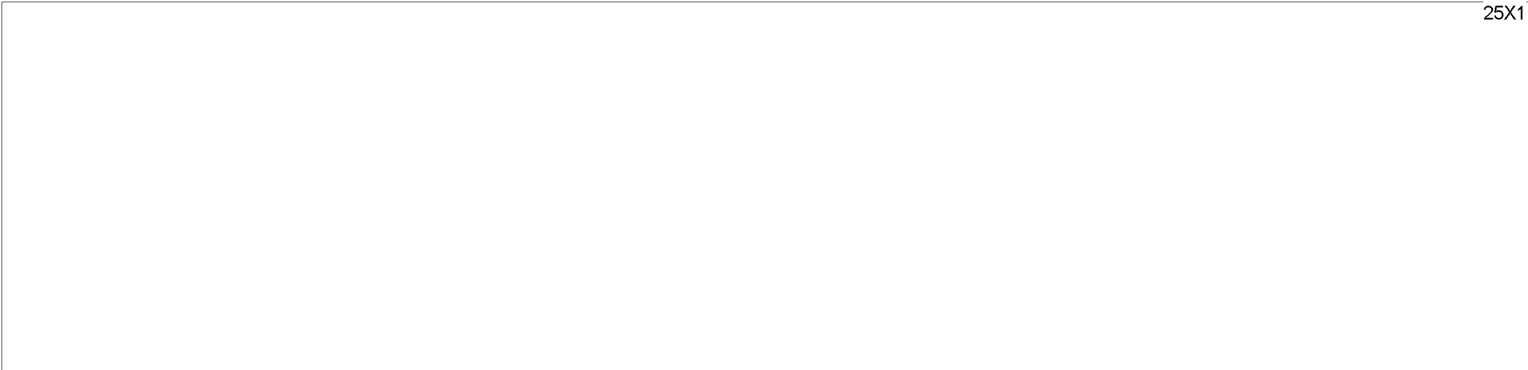
BE/OBJ NO:

EPF CAT : 25

CH

NPIC NO :

COMIREX NO:



25X1

1994
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY PIM PIM004-77 JUL 77 [] SEC CLASS: 13 MSN: [] 4P

ACCN: 5081460 25X1

YUNGNING RADIO COMMUNICATIONS RCVR STA SOUTH CH 402840N 1160938E
WAC NO : 0289 BE/OBJ NO: [] NPIC NO : - 48-A6
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1
25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE YUNG-NING RADCOM RECEIVER STATION SOUTH, LOCATED IN THE NORTHERN SECTION OF PEI-CHING MUNICIPALITY, PEOPLES REPUBLIC OF CHINA. INCLUDED IN THIS REPORT IS AN OVERPRINTED PHOTOGRAPH OF THE ANTENNA STATION. THE PHOTO DISPLAYS THE ANTENNA FIELD, ALONG WITH DETAILED MENSURATION OF ALL MASTS AND THE AZIMUTHS OF THE ANTENNAS. THE SUPPORT AREAS DO NOT APPEAR ON THE PHOTOGRAPH.

25X1

1995
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X15X1

[Large Redacted Area]

25X1

NPIC SR

SR072-77

SEP 77

[Redacted]

SEC CLASS: 14B MSN:

[Redacted]

2P

ACCN: S08146

25X1

VOLGOGRAD SA-5 COMPLEX C21 SA-5 NOSE CONES

UR 482114N 0441736E

1996

TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 16-23
IDHS CODE: [] EPF CAT : 40C COMIREX NO: []

25X1
25X1

THIRTY-THREE SA-5 NOSE CONES WERE IDENTIFIED AT VOLGOGRAD SAM COMPLEX C21-5, USSR, ON HIGH-RESOLUTION IMAGERY OF 29 MARCH 1977. THIS IS THE FIRST IDENTIFICATION OF SA-5 NOSE CONES COMPLETELY SEPARATE FROM THE MISSILE OR SUSTAINER.

25X1

NPIC SR SR070-77 SEP 77 [] SEC CLASS: 14 MSN: 6P ACCN: S081467

25X1

MISSILES, SS-1 DEPLOYMENT SUMMARY SY
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

THIS REPORT SUMMARIZES CHANGES IN DEPLOYMENT OF SS-1 TACTICAL MISSILES IN SYRIA. []

25X1
25X1

NPIC PIR PIR028-77 SEP 77 [] SEC CLASS: 14B MSN: [] 7P ACCN: S081468

25X1

25X1

USHTOBE TROPOSCATTER STA NEW SIGNAL EXER CF UR 4516 N 07800 E
WAC NO : 0244 BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 25D COMIREX NO:
TALDY KURGAN ARMY BARRACKS AL3 SIGNAL EXER CF UR 450048N 0782640E
WAC NO : 0244 BE/OBJ NO: NPIC NO : - 226
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1

25X1
25X1
25X1

25X1

1997
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Redacted]

25X1

NPIC PIR PIR027-77 OCT 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 4P ACCN: S08146 25X1

GENERAL, CIVIL DEFENSE TRNG FACILS SRF CPLXS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:
MISSILES, SRF COMPLEXES CIVIL DEF TRNG FACILS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:

NPIC PIR PIR024-77 SEP 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 4P ACCN: S08147 25X1

[Redacted]

25X1

ELECTRONICS, SOVIET TROPOSCATTER EQUIP DPL PL
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:
ELECTRONICS, SOVIET TROPOSCATTER EQUIP DPL CZ
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:
ELECTRONICS, SOVIET TROPOSCATTER EQUIP DPL HU
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS REPORT DISCUSSES THE FIXED-STATION, TWIN DISH (R-408) NETWORK; THE KNOWN GARRISONS HOUSING TWIN PLATE (R-410) BATTALIONS; AND THE LOCATIONS OF TWIN PAN TROPOSCATTER EQUIPMENT IN THE GROUPS OF SOVIET FORCES IN [Redacted] POLAND, CZECHOSLOVAKIA, AND HUNGARY. [Redacted] THE INFORMATION CUTOFF DATE OF THIS REPORT.

25X1
25X1

CIA BIIR RCS13-0016-77 SEP 77 SEC CLASS: 05C MSN: [Redacted] 6P ACCN: S081471

DOROGOBUSH NITROGEN FERTILIZER COMBINE UR 545500N 0331800E
WAC NO : 0167 BE/OBJ NO: [Redacted] NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 30F COMIREX NO:

25X1
25X1

THE DOROGOBUSH NITROGEN FERTILIZER COMBINE PRODUCES AQUEOUS AMMONIA AND NITROGEN-PHOSPHOROUS-POTASSIUM (NPK) FERTILIZERS, NITRIC ACID, SULFURIC ACID, AND POSSIBLY OXYGEN.
THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE THAT SUMMARIZES THE PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE

1998
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

COMBINE.

CIA BIIR RCS13-0003-77 SEP 77 SEC CLASS: 05C MSN: 8P ACCN: S081472

GRODNO CHEMICAL FERTILIZER PLANT

WAC NO : 0168 BE/OBJ NO: NPIC NO : - 22-N1
IDHS CODE: EPF CAT : 30F COMIREX NO:

UR 534020N 0235350E

25X1
25X1

GRODNO CHEMICAL FERTILIZER PLANT PRIMARILY PRODUCES NITROGEN FERTILIZERS AND A SYNTHETIC FIBER FEEDSTOCK. ITS MAIN PRODUCTS INCLUDE AMMONIUM NITRATE, AMMONIUM SULFATE, UREA FERTILIZERS, CAPROLACTAM, AMMONIA, AND NITRIC AND SULFURIC ACIDS.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE PLANT AND A TABLE SUMMARIZING ITS PRODUCTION AREAS AND THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE PLANT.

CIA BIIR RCS13-0020-77 SEP 77 SEC CLASS: 05 MSN: 10P ACCN: S081473

TIRGU MURES CHEMICAL COMBINE

WAC NO : 0251 BE/OBJ NO: NPIC NO : - 115-C1
IDHS CODE: EPF CAT : 30F COMIREX NO:

RO 463049N 0243014E

25X1
225X1

THE TIRGU MURES CHEMICAL COMBINE PRODUCES AMMONIUM NITRATE, UREA, AND NITROGEN-PHOSPHOROUS-POTASSIUM (NKP) FERTILIZERS, AS WELL AS AMMONIA, NITRIC ACID, AND OXYGEN.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE WHICH SUMMARIZES THE PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

25X1

1999
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Redacted]

25X1

CIA BIIR RCS13-0011-77 SEP 77 SEC CLASS: 05C MSN: 9P ACCN: S081475

KINGISEPP MONAMMONIUM PHOSPHATE PLANT

WAC NO : 0153

BE/OBJ NO: [Redacted]

UR 592200N 0283600E

NPIC NO : - 45-64

IDHS CODE: [Redacted]

EPF CAT : 30F

COMIREX NO: [Redacted]

25X1

25X1

[Large Redacted Area]

25X1

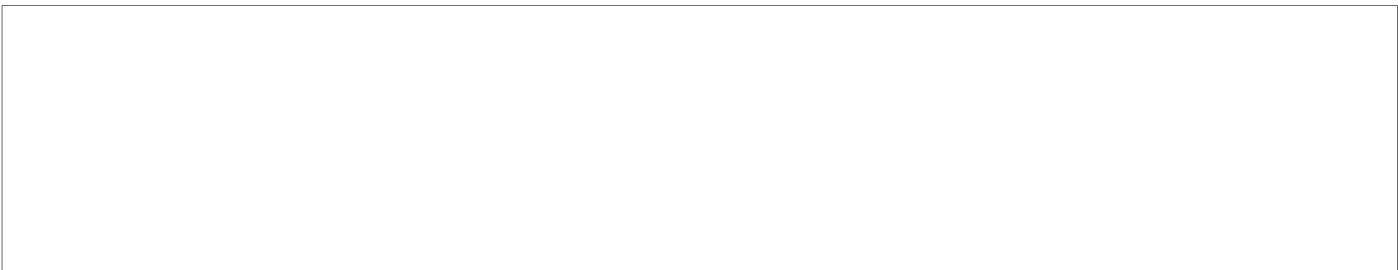
2000
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1
20A1



25X1

CIA INFR IS10053K-77 SEP 77 [redacted] SEC CLASS: 13 MSN: [redacted] 17P ACCN: S081479 25X1

ELECTRONICS, TELEPHONE SYSTEM KIYEV UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25B COMIREX NO:
KIYEV TELEPHONE SYSTEM ANALYSIS UR 502635N 0303040E
WAC NO : 0233 BE/OBJ NO: NPIC NO :
IDHS CODE: [redacted] EPF CAT : 25B COMIREX NO:

25X1

THIS STUDY PROVIDES INFORMATION CONCERNING THE LOCATION AND FUNCTION OF MANY OF THE COMPONENT TELEPHONE OFFICES OF THE KIEV TELEPHONE SYSTEM AND IT PROVIDES THE EVIDENCE SUPPORTING THESE IDENTIFICATIONS. IT ALSO GIVES INFORMATION ON THE ORGANIZATION OF THE SYSTEM.*

ARMY BIIB SAC24-5002-77 OCT 77 [redacted] SEC CLASS: 08 MSN: [redacted] 4P ACCN: S081480

AIRCRAFT, HIP E MI-8 ARMAMENT CONFIG NEW UR
WAC NO : BE/OBJ NO: [redacted] NPIC NO :
IDHS CODE: EPF CAT : 05D COMIREX NO:

25X1

THIS BASIC IMAGERY INTERPRETATION BRIEF PROVIDES INFORMATION ON MODIFICATIONS TO THE WEAPONS SYSTEMS OF THE MI-8 HIP C HELICOPTER, WHICH GREATLY INCREASED THE SOVIET'S AIRMOBILE AND ANTITANK CAPABILITIES. SINCE THIS REPORT WAS PREPARED, THIS VERSION HAS RECEIVED THE DESIGNATION OF MI-8 HIP E.*

DIA IIM SB3-57569-77 29 SEP 77 [redacted] SEC CLASS: 13 MSN: [redacted] 2P ACCN: S081481 25X1

NEFTEKAMSK MOTOR VEHICLE PLANT NEW POSS U/C UR 560645N 0541810E
WAC NO : 0155 BE/OBJ NO: NPIC NO :
IDHS CODE: [redacted] EPF CAT : 85A COMIREX NO:

25X1

DIA IIM SB2-57556-77 OCT 77 [redacted] SEC CLASS: 14D MSN: [redacted] 16P ACCN: S081482 25X1

2001
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NEVELSK PORT FACILITIES

WAC NO : 0281

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75I

UR 464004N 1415128E

NPIC NO : - 9-A

COMIREX NO: []

DIA IIM 5B2-57536-77

OCT 77

SEC CLASS: 14B MSN: []

27P

ACCN: S081483

25X1

25X11

25X1

25X1

SARATOV PORT COMPLEX

WAC NO : 0235

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75I

UR 513050N 0455810E

NPIC NO :

COMIREX NO:

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25X1

25X1

25X1

2002
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1

25X1

DIA	IIM	5B2-57672-77	OCT 77	[REDACTED]	SEC CLASS: 14B	MSN: [REDACTED]	19P	ACCN: S081509	25X1
		KOMARNO PORT COMPLEX				CZ 474521N 0180722E			25X1
		WAC NO : 0252		BE/OBJ NO: [REDACTED]		NPIC NO : - 29-C			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 75I		COMIREX NO: [REDACTED]			25X1
DIA	IIM	5B3-57707-77	27 OCT 77	[REDACTED]	SEC CLASS: 13	MSN [REDACTED]	3P	ACCN: S081510	25X1
		ALMA ATA/ZAKIROVSKIY AIRFIELD POL STGE CPCTY				UR 432638N 0770311E			25X1
		WAC NO : 0329		BE/OBJ NO: [REDACTED]		NPIC NO : - 1-L1			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I		COMIREX NO:			25X1
NPIC	MEMO	[REDACTED]	18 JAN 77	[REDACTED]	SEC CLASS: 13	MSN:	2P	ACCN: S081511	25X1
		ELECTRONICS, AW RADAR DUMMY SITES SEARCH				UR			25X1
		WAC NO :		BE/OBJ NO:		NPIC NO :			25X1
		IDHS CODE:		EPF CAT : 25A		COMIREX NO:			25X1
ARMY	PIM	PIM003-77	14 JUL 77	[REDACTED]	SEC CLASS: 13	MSN: [REDACTED]	4P	ACCN: S081512	25X1
		YUNGNING RADIO COMMUNICATIONS RECEIVER STA 2				CH 403003N 1160336E			25X1
		WAC NO : 0289		BE/OBJ NO: [REDACTED]		NPIC NO : - 4B-R			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 25D		COMIREX NO: [REDACTED]			25X1

2007
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

THIS PHOTO INTERPRETATION MEMORANDUM CONTAINS A DESCRIPTION OF THE YUNG-NING RADCOM RECEIVER NO 2, LOCATED IN THE NORTHERN SECTION OF PEI-CHING MUNICIPALITY, PEOPLES REPUBLIC CHINA. INCLUDED IN THIS REPORT IS AN OVERPRINTED PHOTOGRAPH OF THE TRANSMITTER STATION. THE PHOTO DISPLAYS THE STATION ANTENNAS, ALONG WITH DETAILED MENSURATION OF ALL MASTS AND THE AZIMUTHS OF THE ANTENNAS.

NPIC BIIR RCA09-0015-77 OCT 77 [] SEC CLASS: 25 X MSN: [] 4P

ACCN: S08151325X1

KALISZ AIRCRAFT ENGINE PLANT WSK PL 514421N 0180602E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 334
IDHS CODE: [] EPF CAT : 05G COMIREX NO: []

25X1

25X1

25X1

THIS REPORT UPDATES TWO PREVIOUS NPIC REPORTS ON KALISZ AIRCRAFT ENGINE PLANT WSK, [] WHICH SUBSTANTIALLY SATISFY THE BASIC REPORTING REQUIREMENTS FOR THIS TARGET. ACTIVITY SINCE 16 FEBRUARY 1975, THE DATE OF INFORMATION FOR THE MOST RECENT REPORT, IS INCLUDED UNDER BASIC DESCRIPTION. THE NEW CONSTRUCTION COMPLETED [] HAS ADDED 26,774 SQUARE METERS OF FLOORSPACE TO THE PLANT. THE CONTINUING ENLARGEMENT OF PLANT FLOORSPACE SUGGESTS HIGHER PRODUCTION CAPACITY AND POSSIBLY NEW PRODUCTS. [] THE PLANT CONTAINED [] METERS OF COMPLETE FLOORSPACE AND AN ADDITIONAL 12,450 SQUARE METERS WERE UNDER CONSTRUCTION.

25X1

25X1

25X1

25X1.1

THIS REPORT INCLUDES ONE ANNOTATED PHOTOGRAPH AND A TABLE OF MENSURAL DATA.

25X1

2008
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AF STDY [] JUN 77 [] SEC CLASS: 25 MSN: 78P ACCN: S081516 25X1

GENERAL, CIVIL DEFENSE NOVOSIBIRSK OBLAST UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 10A COMIREX NO:

THIS REPORT PRESENTS THE RESULTS OF AN ALL SOURCE STUDY OF THE NATURE AND SCOPE OF SOVIET CIVIL DEFENSE ACTIVITIES IN PORTIONS OF NOVOSIBIRSK OBLAST. THIS AREA WAS SELECTED FOR THIS STUDY BECAUSE OF ITS IMPORTANCE AS AN INDUSTRIAL, AGRICULTURAL, AND ACADEMIC CENTER.*

25X1

DIA STDY DDI1720-006-77 AUG 77 [] SEC CLASS: 25 MSN: 46P ACCN: S081519 25X1

ELECTRONICS, COMMAND CONTROL TELCOM SYSTEM KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25D COMIREX NO:

THIS STUDY EXAMINES THE CIVIL AND MILITARY TELECOMMUNICATIONS SYSTEMS IN NORTH KOREA. AN EFFORT HAS BEEN MADE TO PRESENT A PICTURE OF THE COUNTRY'S TELECOMMUNICATIONS SYSTEM; HOWEVER, THE INFORMATION AVAILABLE WAS OFTEN INCOMPLETE OR CONTRADICTORY. THE MOST SERIOUS GAPS REQUIRING INTELLIGENCE COLLECTION EFFORTS PERTAIN TO UNDERGROUND COMMUNICATION FACILITIES, FOREIGN INVOLVEMENT, AND FUTURE PLANS.

DIA STDY DDI1030-004-77 FEB 77 [] SEC CLASS: 25A MSN: 111P ACCN: S081520 25X1

MISSILES, MRBM/IRBM CURRENT STATUS REVIEW UR
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 40B COMIREX NO:

THIS REPORT REVIEWS THE CURRENT STATUS OF THE SOVIET MEDIUM RANGE AND INTERMEDIATE RANGE BALLISTIC MISSILE FORCE. IT DISCUSSES FORCE ORGANIZATION, CURRENT STRENGTH AND DISPOSITION, RECENT FORCE DEVELOPMENTS AND SIGNIFICANT ACTIVITY. IT GIVES THE GENERAL DETAILS OF THE LAUNCH SITES AND SUPPORT

25X1

2009
 TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

FACILITIES IN THE COMPLEXES AND OTHER MRBM/IRBM RELATED FACILITIES WHICH ARE ACTIVE IN THE TARGET DATA INVENTORY.

THE REPORT WILL PROVIDE A BASELINE OR POINT OF DEPARTURE FOR THE ANTICIPATED RESTRUCTURING OF THE FORCE OVER THE NEXT FEW YEARS CONCOMITANT WITH REPLACEMENT OF THE PRESENT MISSILE SYSTEMS WITH THE SS-X-20 IRBM.

DIA STDY DD12680-023B-77 SEP 77 [] SEC CLASS: 25 MSN: 43P ACCN: S0815225X1)

MISSILES, DEVELOPMENTS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:
AIRCRAFT, DEVELOPMENTS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05 COMIREX NO:
MILITARY, DEVELOPMENTS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
NAVAL, DEVELOPMENTS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:
PHOTO, RECONNAISSANCE DEVELOPMENTS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65 COMIREX NO:
ELECTRONICS, DEVELOPMENTS UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

DIA STDY DD12680-022A-77 AUG 77 [] SEC CLASS: 25 Y MSN: 37P ACCN: S081522 25X1)

MISSILES, DEVELOPMENTS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40 COMIREX NO:
NAVAL, DEVELOPMENTS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:
MILITARY, DEVELOPMENTS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
ELECTRONICS, DEVELOPMENTS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:
AIRCRAFT, DEVELOPMENTS CH
WAC NO : BE/OBJ NO: NPIC NO :

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IDHS CODE:	EPF CAT : 05	COMIREX NO:
PHOTO, RECONNAISSANCE SATELLITE ACT CHINA		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 65	COMIREX NO:
MILITARY, ACTIVITY SUMMARY TAIWAN STRAITS		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:
MILITARY, ACTIVITY SUMMARY TAIWAN STRAITS		TW
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:
MILITARY, CHINA-USSR BORDER ACTIVITY		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:
MILITARY, USSR-CHINA BORDER ACTIVITY		UR
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:

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NPIC	MIPIR	CA0086-77	20 SEP 77	[Redacted]	SEC CLASS: 14	MSN:	225P	ACCN: S081562	25X1
	MIPIR	082/086							
	WAC NO :			BE/OBJ NO:	NPIC NO :				
	IDHS CODE:			EPF CAT : 15A	COMIREX NO:				
DIA	NBRG	NDA07-5338-77	03 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081563	
		BORZYA ARMY BARRACKS SW AL1 + HEADQUARTERS			UR	502242N 1163107E			
	WAC NO :	0202		BE/OBJ NO:	NPIC NO :	- 3-C			25X1
	IDHS CODE:	[Redacted]		EPF CAT : 35A	COMIREX NO:	[Redacted]			25X1
DIA	NBRG	NDA07-5339-77	03 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081564	
		BORZYA ARMY BARRACKS AL3/HQ MRD/SA-4 BRIGADE			UR	502105N 1162720E			
	WAC NO :	0202		BE/OBJ NO:	NPIC NO :	- 3-B1			25X1
	IDHS CODE:	[Redacted]		EPF CAT : 35A	COMIREX NO:	[Redacted]			25X1
DIA	NBRG	NDA07-5340-77	03 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081565	
		BIKIN ARMY BARRACKS AL1 + HQ TANK DIVISION			UR	464801N 1341615E			
	WAC NO :	0282		BE/OBJ NO:	NPIC NO :	- 5-A			25X1
	IDHS CODE:	[Redacted]		EPF CAT : 35A	COMIREX NO:	[Redacted]			25X1.1
DIA	NBRG	NDA07-5341-77	03 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081566	

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LERMONTOVKA ARMY BARRACKS AL1 + HQ MRD UR 470920N 1342030E
WAC NO : 0282 BE/OBJ NO: NPIC NO : - 205
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5079-77 05 OCT 77 SEC CLASS: 05B MSN: 1P ACCN: S081567

SEVASTOPOL NAVAL BASE STRELETSKAYA UR 443613N 0332828E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 62-C3
IDHS CODE: EPF CAT : 75B COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5080-77 05 OCT 77 SEC CLASS: 05B MSN: 1P ACCN: S081568

SEVASTOPOL OFFSHORE DEFENSE FORCE BASE UR 443639N 0332959E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 62-C6
IDHS CODE: EPF CAT : 75B COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5081-77 05 OCT 77 SEC CLASS: 05B MSN: 1P ACCN: S081569

SEVASTOPOL SHIPYARD SEVMORZAVOD 497 UR 443646N 0333211E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 62-C
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

DIA IIM 5B1-57571-77 26 SEP 77 SEC CLASS: 14B MSN: 1P ACCN: S081570

JAROSLAW ARMY BARRACKS NORTH PL 500049N 0224057E
WAC NO : 0232 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35A COMIREX NO:

25X1
25X1

DIA IIM 5B1-57552-77 28 SEP 77 SEC CLASS: 14 MSN: 15P ACCN: S081571

LENINGRAD MEDICAL INSTITUTE CIV DEF SHLTR U/G UR 595758N 0301946E
WAC NO : 0153 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:
LENINGRAD MEDICAL INSTITUTE CIV DEF SHLTR U/G UR 595758N 0301946E
WAC NO : 0153 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 65A COMIREX NO:

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NPIC MIPIR CA0091-77 OCT 77 [] SEC CLASS: 14 MSN: 150P ACCN: S08157325X1

MIPIR 087/091
WAC NO :
IDHS CODE: BE/OBJ NO: NPIC NO :
EPF CAT : 15A COMIREX NO:

DIA BIIR RDA05-0016-77 OCT 77 [] SEC CLASS: 14D MSN [] 10P ACCN: S08157425X1

MOGOCHA HELIPORT UR 534425N 1194430E 25X1
WAC NO : 0199 BE/OBJ NO: [] NPIC NO : - 5-C1 25X1
IDHS CODE: [] EPF CAT : 05 COMIREX NO: [] 25X1
MOGOCHA HELIPORT GCA SITE UR 534425N 1194430E 25X1
WAC NO : 0199 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 25H COMIREX NO: 25X1
MOGOCHA AIRFIELD AW RADAR FACILITY UR 534340N 1194630E 25X1
WAC NO : 0199 BE/OBJ NO: [] NPIC NO : - 5-C2 25X1
IDHS CODE: [] EPF CAT : 25H COMIREX NO: 25X1

THIS REPORT IS A DETAILED, IMAGERY-DERIVED ANALYSIS OF MOGOCHA HELIPORT AND ASSOCIATED FACILITIES DURING THE PERIOD JULY 1971 TO OCTOBER 1976. THE HELIPORT, IN SOUTHEAST U.S.S.R. (TRANSBAYKAL MILITARY DISTRICT), SUPPORTS HOOK, HIND, AND HIP HELICOPTERS. DURING THE REPORTING PERIOD CONTINUOUS CONSTRUCTION HAS OCCURRED TO UPGRADE THE TAXIWAYS AND PARKING FACILITIES. FEATURES DESCRIBED IN THE TEXT INCLUDE THE 324M X 30M CONCRETE RUNWAY, A SOD RUNWAY, TAXIWAYS, PARKING FACILITIES, NAVIGATION/LANDING/ELECTRONIC AIDS, POL STORAGE WITH AN ESTIMATED CAPACITY OF 4,295,140 LITERS, AIRCRAFT MAINTENANCE, ORDNANCE, ACCOMMODATIONS, UTILITIES, AND TRANSPORTATION.

CIA BIIR RCS13-0021-77 SEP 77 [] SEC CLASS: 13 MSN: 22P ACCN: S08157525X1

INDUSTRY, CHLORINE + CAUSTIC SODA PROD FACILS CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: [] EPF CAT : 30F COMIREX NO:

THIS REPORT DESCRIBES THE NATURE AND GROWTH OF THE CHINESE CHLORINE AND CAUSTIC SODA INDUSTRY, THE PRODUCTION METHODS, AND THE METHODOLOGY USED FOR CAPACITY ESTIMATES. ALSO INCLUDED IS A PLANT DISTRIBUTION MAP, ANNOTATED PHOTOGRAPHS OF SELECTED PLANTS, TABLES WITH DETAILED INFORMATION ON EACH PLANT, AND GRAPHS SHOWING DIFFERENT ASPECTS OF THE INDUSTRY'S GROWTH.

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IDHS CODE: EPF CAT : 75D COMIREX NO:

IMAGERY OF SEVERODVINSK SHIPYARD 402 PROVIDES SUFFICIENT EVIDENCE TO CONFIRM THAT THE DELTA III CLASS SSBN DOES NOT HAVE A DROPPED KEEL BELOW THE MISSILE BAY TO ACCOMODATE THE SS-NX-18 MISSILE. MENSURAL DATA ALSO INDICATE THAT THE HEIGHT OF THE SUBMARINE FROM THE KEEL TO THE TOP OF THE MISSILE BAY IS ADEQUATE TO HOUSE THE SS-NX-18 WITHOUT THE NECESSITY FOR A DROPPED KEEL.*

NPIC BIIB BCA21-0002-77 OCT 77 [] SEC CLASS: 14A MSN: 1P ACCN: S0815725X1

MITSPE RAMON WEAPONS TEST RANGE NO SIG CHANGE IS 302451N 0345420E
WAC NO : 0447 BE/OBJ NO: [] NPIC NO : - 49-F2 25X1
IDHS CODE: [] EPF CAT : 35G COMIREX NO: [] 25X1

NPIC BIIB BCA09-0003-77 OCT 77 [] SEC CLASS: 25 MSN: 1P ACCN: S0815825X1

AL GAHIRAH AIRFRAME PLANT 36 NO SIG CHANGE EG 294950N 0311958E
WAC NO : 0447 BE/OBJ NO: [] NPIC NO : - 3-A 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: [] 25X1

AL GAHIRAH AIRCRAFT ENG PLANT 135 NO SIG CHNG EG 294931N 0312018E
WAC NO : 0447 BE/OBJ NO: [] NPIC NO : 25X1
IDHS CODE: [] EPF CAT : 05G COMIREX NO: 25X1

25X1

NPIC IIR IIR067-77 30 SEP 77 [] SEC CLASS: 14B MSN: [] 6P ACCN: S0815825X1

IRSHA U/I INSTALLATION U/C UR 504325N 0293300E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 167-D 25X1
IDHS CODE: [] EPF CAT : 10B COMIREX NO: [] 25X1
KUZNETSOVO U/I INSTALLATION U/C UR 553145N 0383230E 25X1
WAC NO : 0167 BE/OBJ NO: [] NPIC NO : - 215

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IDHS CODE: []	EPF CAT : 10B	COMIREX NO:
KIROV U/I INSTALLATION U/C		UR 584421N 0494019E
WAC NO : 0155	BE/OBJ NO: []	NPIC NO : - 5-U
IDHS CODE: []	EPF CAT : 10B	COMIREX NO: []

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NEW CONSTRUCTION ACTIVITY WAS OBSERVED [] AT THE IRSHA UNIDENTIFIED INSTALLATION IN THE CARPATHIAN MILITARY DISTRICT, USSR. TWO SIMILAR INSTALLATIONS UNDER CONSTRUCTION, KUZNETSOVO UNIDENTIFIED INSTALLATION IN THE MOSCOW MILITARY DISTRICT AND KIROV UNIDENTIFIED INSTALLATION IN THE URAL MILITARY DISTRICT, WERE IDENTIFIED ON IMAGERY OF JULY 1977. THE INSTALLATIONS ARE SPACED APPROXIMATELY 400 NAUTICAL MILES (NM) APART.

THE THREE INSTALLATIONS ARE IN ISOLATED, WOODED AREAS AND ARE WALL SECURED. EACH INSTALLATION CONSISTS OF A PROBABLE PROCESSING AREA AND A SUPPORT AREA.

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DIA	NBRG	NDA07-5273-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081593
		YANGLIUCHING MILITARY AREA 1		CH 3908 N 11659 E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO:		25X1
DIA	NBRG	NDA07-5274-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081594
		YANGLIUCHING ARMY BARRACKS SOUTH AL3		CH 390538N 1170028E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 67-M		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5275-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081595
		YANGLIUCHING ARMY BARRACKS SE AL2 + HQ		CH 390706N 1170022E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 67-M1		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5276-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081596
		WUCHING MILITARY AREA 1		CH 3923 N 11703 E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO:		25X1
DIA	NBRG	NDA07-5277-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081597
		WUCHING ARMY BARRACKS AL1 + HQ INFANTRY DIV		CH 392126N 1170422E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 79-A		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []		25X1
DIA	NBRG	NDA07-5278-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081598
		CHAOKOCHUANG MILITARY AREA 1		CH 3945 N 11824 E		
		WAC NO : 0381	BE/OBJ NO: []	NPIC NO :		25X1
		IDHS CODE: []	EPF CAT : 35	COMIREX NO:		25X1
DIA	NBRG	NDA07-5279-77	12 SEP 77	SEC CLASS: 05G MSN:	1P	ACCN: S081599

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	CHAOKOCHUANG ARMY BARRACKS AL1 + HQ INF DIV	CH 394631N 1182504E	
	WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 119-A		25X1
	IDHS CODE: [] EPF CAT : 35A COMIREX NO: []		25X1
DIA NBRG	NDA07-5280-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081600
	TANGKU ARMY BARRACKS WEST AL2	CH 390130N 1173550E	()
	WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 62-C1		25X1
	IDHS CODE: [] EPF CAT : 35A COMIREX NO: []		25X1
DIA NBRG	NDA07-5281-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081601
	SHANHAIKUAN ARMY BARRACKS AL1	CH 400041N 1194601E	
	WAC NO : 0289 BE/OBJ NO: [] NPIC NO : - 20-D		25X1
	IDHS CODE: [] EPF CAT : 35A COMIREX NO: []		25X1
DIA NBRG	NDA07-5282-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081602
	CHIUFENGCHUN ARMY BARRACKS AL1	CH 394901N 1182303E	
	WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 119		25X1
	IDHS CODE: [] EPF CAT : 35A COMIREX NO: []		25X1
DIA NBRG	NDA07-5283-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081603
	CHINHUANGTAO ARMY BARRACKS AL2	CH 395730N 1193533E	
	WAC NO : 0381 BE/OBJ NO: [] NPIC NO :		25X1
	IDHS CODE: [] EPF CAT : 35A COMIREX NO:		25X1
DIA NBRG	NDA07-5284-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081604
	TUNGHSIEN ARMY BARRACKS NORTH AL2	CH 395849N 1164106E	
	WAC NO : 0381 BE/OBJ NO: [] NPIC NO : - 178		25X1
	IDHS CODE: [] EPF CAT : 35A COMIREX NO: []		25X1
DIA NBRG	NDA07-5285-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081605
	CHAOKOCHUANG MILITARY TRAINING AREA	CH 394730N 1182520E	
	WAC NO : 0381 BE/OBJ NO: [] NPIC NO :		25X1
	IDHS CODE: [] EPF CAT : 35B COMIREX NO:		25X1
DIA NBRG	NDA07-5286-77 12 SEP 77	SEC CLASS: 05G MSN:	1P ACCN: S081606

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TIENCHING MILITARY AREA 1

WAC NO : 0381
IDHS CODE: []

BE/OBJ NO: []
EPF CAT : 35

CH 3908 N 11712 E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5287-77 12 SEP 77

SEC CLASS: 05G MSN: 1P

ACCN: S081607

TIENCHING ARMY BARRACKS AL1 + HQ INFANTRY DIV

WAC NO : 0381
IDHS CODE: []

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

CH 390854N 1171454E
NPIC NO : - 67-H1
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5288-77 12 SEP 77

SEC CLASS: 05G MSN: 1P

ACCN: S081608

KUANERHCHUANG ARMY BARRACKS AL1

WAC NO : 0381
IDHS CODE: []

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

CH 390845N 1172340E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5289-77 12 SEP 77

SEC CLASS: 05G MSN: 1P

ACCN: S081609

WANGWENCHUANG ARMY BARRACKS AL1

WAC NO : 0381
IDHS CODE: []

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

CH 3850 N 1171830E
NPIC NO :
COMIREX NO:

25X1
25X1

DIA NBRG NDA07-5290-77 12 SEP 77

SEC CLASS: 05G MSN: 1P

ACCN: S081610

TANGKUANTUN ARMY BARRACKS SW AL1

WAC NO : 0381
IDHS CODE: []

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

CH 384034N 1165121E
NPIC NO : - 68-J
COMIREX NO: []

25X1
25X1

DIA NBRG NDA07-5291-77 12 SEP 77

SEC CLASS: 05G MSN: 1P

ACCN: S081611

KOKU ARMY BARRACKS WNW AL1

WAC NO : 0381
IDHS CODE: []

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

CH 385954N 1172725E
NPIC NO : - 67-F
COMIREX NO: []

25X1
25X1

CIA BIIR RCS13-0012-77 SEP 77

SEC CLASS: 05C MSN: 13P

ACCN: S081612

DNEPRODZERZHINSK CHEMICAL COMBINE

WAC NO : 0234
IDHS CODE: []

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

UR 482915N 0344030E
NPIC NO : - 6-F
COMIREX NO:

25X1
25X1

THE DNEPRODZERZHINSK CHEMICAL COMBINE PRODUCES PRIMARILY NITROGEN FERTILIZERS, INSECTICIDES, RESINS, RESIN FEEDSTOCKS, AND SOLVENTS. ITS MAIN PRODUCTS INCLUDE AMMONIA, NITRIC ACID, AMMONIUM NITRATE FERTILIZER, ETHYLBENZENE, SULFURIC ACID, HYDROCHLORIC ACID, CHLORINE, AND POSSIBLY SODIUM NITRATE AND

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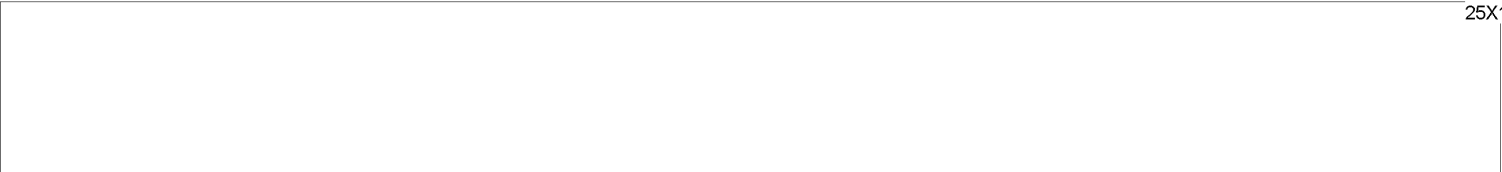


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CHLORINATED HYDROCARBONS. IT REPORTEDLY PRODUCES NITROUS OXIDE, POLYVINYL CHLORIDE, TOLUENE DIISOCYANATE, AND PHOSGENE.

IN 1928, WHEN THE COMBINE BEGAN PRODUCTION, IT CONSISTED OF A COKE GAS PURIFICATION PLANT, A COKE-GAS-BASED AMMONIA PLANT, A NITRIC ACID PLANT, A SULFURIC ACID PLANT, AND AN AMMONIA NITRATE FERTILIZER PLANT. SINCE THE END OF WORLD WAR II, THE COMBINE HAS BEEN EXPANDED CONSIDERABLY. DURING THE 1971-75 FIVE-YEAR PLAN, A POSSIBLE ISOCYANATE PLANT AND A REPORTED POLYVINYL CHLORIDE PLANT WERE CONSTRUCTED. FUTURE EXPANSION WILL INCLUDE THE CONSTRUCTION OF A KELLOGG AMMONIA PLANT AND A CZECHOSLOVAKIAN UREA FERTILIZER PLANT.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE SUMMARIZING ITS PRODUCTION AREAS AND THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.



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NPIC SR SR075-77 OCT 77 [redacted] SEC CLASS: 14B MSN: [redacted] 4P ACCN: S0816125X1

TAGANROG AIRFRAME PLANT DIMITROV 86 KASP-B	UR	471154N 0385221E
WAC NO : 0249	BE/OBJ NO: [redacted]	NPIC NO : - 38-D
IDHS CODE: [redacted]	EPF CAT : 05G	COMIREX NO: [redacted]
AIRCRAFT, KASP-B COMPONENTS	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05B	COMIREX NO:
AIRCRAFT, TAG-C COMPONENTS + CONSTRUCTION	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05B	COMIREX NO:

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THE OBSERVATION OF MAJOR KASP-B COMPONENTS AT TAGANROG AIRFRAME PLANT DIMITROV 86, USSR, INDICATES THAT ANOTHER KASP-B VEHICLE MAY BE ASSEMBLED AT THIS FACILITY. A PARTIALLY ASSEMBLED AND CANVAS-COVERED VEHICLE, DESIGNATED THE TAG-C, HAD BEEN OBSERVED [redacted] [redacted] AFTER COMPARING THE TAG-C AND ITS CANVAS-COVERED COMPONENTS WITH A COMPLETE KASP-B AND THE SIX KASP-B COMPONENTS AT TAGANROG, IT IS NOW BELIEVED THAT THEY ARE THE SAME VEHICLE. IF THE ASSEMBLY OF THESE KASP-B COMPONENTS PROGRESSES AT THE SAME PACE AS THE ASSEMBLY OF THE FIRST KASP-B (TAG-C), THE VEHICLE COULD BE READY FOR TESTING IN EARLY-TO-MID-1978.

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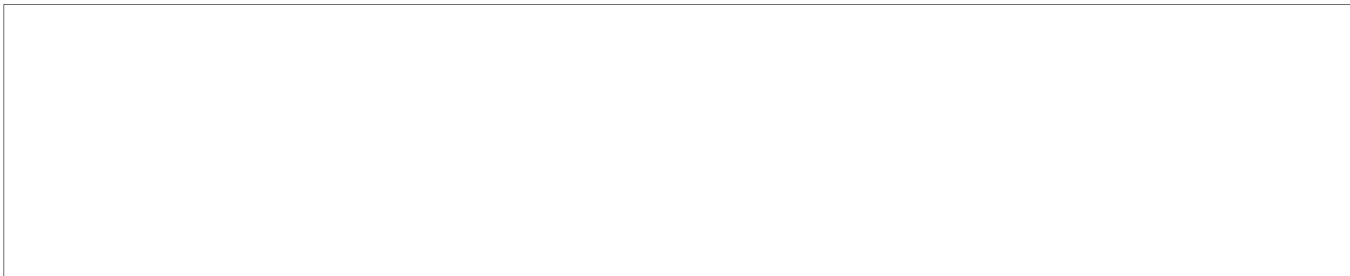




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CIA BIIR RCS13-0017-77 SEP 77 SEC CLASS: 05C MSN: 7P ACCN: S081616

CHERKASSY CHEMICAL COMBINE
WAC NO : 0233 BE/OBJ NO: [REDACTED] UR 492221N 0320418E
IDHS CODE: [REDACTED] EPF CAT : 30F NPIC NO : 9-11
COMIREX NO: [REDACTED]

25X1
25X25X1

THE CHERKASSY CHEMICAL COMBINE PRODUCES NITROGEN FERTILIZERS, POSSIBLY PHOSPHATE FERTILIZERS, AND REPORTEDLY ION-EXCHANGE RESINS. ITS PRODUCTS INCLUDE AMMONIUM NITRATE FERTILIZER, UREA FERTILIZER, AMMONIA, AND NITRIC ACID AND POSSIBLY DIAMMONIUM PHOSPHATE FERTILIZER, PHOSPHORIC ACID, AND OXYGEN. NO DATA IS AVAILABLE ON THE TYPES OF REPORTED ION-EXCHANGE RESINS PRODUCED.

CONSTRUCTION OF THE COMBINE BEGAN IN 1963 AND BY 1966 AN AMMONIA PLANT, A POSSIBLE OXYGEN PLANT, AND A REPORTED ION-EXCHANGE RESINS PLANT WERE COMPLETED. THE COMBINE HAS SINCE BEEN EXPANDED SEVERAL TIMES. DURING THE 1971-75 FIVE-YEAR PLAN, AN AMMONIUM NITRATE FERTILIZER PLANT, A POSSIBLE DIAMMONIUM PHOSPHATE FERTILIZER PLANT, AND A PHOSPHORIC ACID PLANT WERE CONSTRUCTED. ALSO AN AMMONIA PLANT, BEGUN PRIOR TO 1971, WAS COMPLETED, AND CONSTRUCTION BEGAN ON AN UNIDENTIFIED PLANT.

FUTURE EXPANSION REPORTEDLY WILL INCLUDE A KELLOGG-DESIGNED AMMONIA PLANT, WHICH IS TO BE BUILT BY TOYO ENGINEERING OF JAPAN, AND A UREA FERTILIZER PLANT FROM CZECHOSLOVAKIA.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE WHICH SUMMARIZES ITS PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

25X1



2035
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF

25X1
25X1

AF PAR 5-77 11 AUG 77 SEC CLASS: 07 MSN: 2P ACCN: S081621

AIRCRAFT, FITTER E
WAC NO :
IDHS CODE: BE/OBJ NO: EPF CAT : 05D UR
NPIC NO :
COMIREX NO:

THIS REPORT PROVIDES AN ANALYSIS OF THE FITTER E AND INCLUDES THE SIZE AND DESCRIPTION OF THE AIRCRAFT AND A COMPARISON OF THE FITTER E FUSELAGE LENGTH WITH THAT OF THE FITTER C AND D.*

25X1

25X1

AF PAR 627-77 18 AUG 77 SEC CLASS: 13 MSN: 9P ACCN: S081623

TAGANROG AIRFRAME PLANT 86 BERIYEV DESIGN BUR UR 471154N 0385221E
WAC NO : 0249 BE/OBJ NO: NPIC NO : - 38-D
IDHS CODE: EPF CAT : 056 COMIREX NO:

THIS REPORT IS AN UPDATED ANALYSIS OF THE TAGANROG AIRFRAME PLANT DIMITROV 86 - BERIYEV DESIGN BUREAU. IT SUPERCEDES PAR 76-529 AND PARAGRAPH 2B(9)(A) OF PAR 77-508. ANNOTATIONS ARE KEYED TO DRAWING NO. 70E6563/5. THE REPORT INCLUDES A CHRONOLOGICAL LISTING OF ROOF COVERAGE AND FLOORSPACE AND A FUNCTIONAL DESCRIPTION OF EACH SIGNIFICANT BUILDING/STRUCTURE.*

25X1

25X1
25X1

25X1

25X1

2037
TOP SECRET CHESS RUFF

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1
25X1

[Redacted]

25X1

AF PAR 635-77 18 AUG 77 [Redacted] SEC CLASS: 13 MSN: 11P ACCN: S08162525X1

KAMCHATKA MISSILE IMPACT AREAS CRATERS UR 5712 N 16133 E
WAC NO : 0132 BE/OBJ NO: NPIC NO :
IDHS CODE: [Redacted] EPF CAT : 40 COMIREX NO:

25X1
25X1

AF PAR 636-77 24 AUG 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 2P ACCN: S08162525X1

TYURATAM/KAMCHATKA MTC IMPACT TRACKING FAC G UR 570142N 1620114E
WAC NO : 0132 BE/OBJ NO: [Redacted] NPIC NO : 25
IDHS CODE: [Redacted] EPF CAT : 25C COMIREX NO: [Redacted]

25X1
25X1

AF PAR 639-77 31 AUG 77 [Redacted] SEC CLASS: 13 MSN: 3P ACCN: S08162525X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231E
WAC NO : 0165 BE/OBJ NO: [Redacted] NPIC NO : 17-A
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted]
KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT UR 532053N 0501231E
WAC NO : 0165 BE/OBJ NO: [Redacted] NPIC NO : 17-A
IDHS CODE: [Redacted] EPF CAT : 05G COMIREX NO: [Redacted]

25X1
25X1
25X1
25X1

THIS REPORT DESCRIBES NEW CONSTRUCTION AND FACILITY GROWTH AT THE KUYBYSHEV EXPERIMENTAL AIRCRAFT AND ROCKET ENGINE PLANT SINCE PAR 76-599.*

AF PAR 640-77 29 AUG 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 2P ACCN: S08162525X1

AIRCRAFT TAG A UR
WAC NO : BE/OBJ NO: [Redacted] NPIC NO :
IDHS CODE: EPF CAT : 05B COMIREX NO:

25X1

THIS REPORT DESCRIBES THOSE CHANGES OR ADDITIONAL DETAILS DISCERNIBLE ON THE TAG A AIRCRAFT SINCE FTD DRAWING 76E1510.*

AF PAR 641-77 25 AUG 77 [Redacted] SEC CLASS: 13 MSN: 2P ACCN: S08162525X1

2038
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1
25X1

RAMENSKOYE FLIGHT TEST CENTER A/C NEW SEARCH UR 553418N 0380923E
WAC NO : 0167 BE/OBJ NO: NPIC NO : 50
IDHS CODE: EPF CAT : 05G COMIREX NO:

25X1
25X1

25X1

AF PAR 643-77 31 AUG 77 SEC CLASS: 13 MSN: 3P ACCN: S081631 25X1

PEICHING COMMAND CONTROL COMMO FACILS SEARCH CH 3958 N 11611 E
WAC NO : 0381 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:
PEICHING SPACE TRKG RADCOM RCVR HF COMMO ANTS CH 400321N 1161459E
WAC NO : 0289 BE/OBJ NO: NPIC NO : - 47-E1
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1

25X1

AF PAR 648-77 01 SEP 77 SEC CLASS: 13 MSN: 2P ACCN: S081632 25X1

KASPIYSK NAVAL R+D FACILITY UR 425255N 0473922E
WAC NO : 0325 BE/OBJ NO: NPIC NO : - 35-A
IDHS CODE: EPF CAT : 75F COMIREX NO:

25X1

25X1

25X1

KASPIYSK SPECIAL R+D FACILITY WAS REVIEWED TO DETERMINE IF A WING SECTION-LIKE STRUCTURE, LOCATED BESIDE THE POL PUMPING STATION, IS A WING SEGMENT FROM THE KASP-A VEHICLE. IT WAS DETERMINED THAT THE STRUCTURE IN QUESTION IS PART OF A RETAINING WALL FOR THE PARKING AREA ADJACENT TO THE POL PUMPING STATION.*

AF PAR 649-77 01 SEP 77 SEC CLASS: 13 MSN: 3P ACCN: S081633 25X1

2039
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

MISSILES, ICBM TYPE 3D SILO WALL CONSTRUCTION

UR

WAC NO :
IDHS CODE:

BE/OBJ NO: []
EPF CAT : 40A

NPIC NO :
COMIREX NO:

25X1

AF PAR 650-77 01 SEP 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S081637

AIRCRAFT, CHECH A

UR

WAC NO :
IDHS CODE:

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

NPIC NO :
COMIREX NO:

25X1

AF PAR 658-77 12 SEP 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: S081637

ELECTRONICS, ICBM TYPE 3F GUIDANCE RLTD FACS

UR

WAC NO :
IDHS CODE:

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

NPIC NO :
COMIREX NO:

AF ENDR B1009-77 07 SEP 77 SEC CLASS: 05 MSN: 1P

ACCN: S081637

ELECTRONICS, TUB BRICK ECM ANTENNA

UR

WAC NO :
IDHS CODE:

BE/OBJ NO: []
EPF CAT : 25

NPIC NO :
COMIREX NO:

25X1

AF ENDR C3010-77 19 AUG 77 SEC CLASS: 04 MSN: 1P

ACCN: S081639

AIRCRAFT, FLAGON E/F SU-15 WING GEOMETRY

UR

WAC NO :
IDHS CODE:

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

NPIC NO :
COMIREX NO:

25X1

AF ENDR C3011-77 25 AUG 77 SEC CLASS: 05 MSN: 1P

ACCN: S081640

2040
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

AIRCRAFT, FOXBAT D MIG-25 NOSE SECTION

WAC NO : BE/OBJ NO: EPF CAT : 05D

UR NPIC NO : COMIREX NO:

25X1

AF ENDR C6548-4-71 18 AUG 77 SEC CLASS: 13 MSN: 1P

ACCN: S081641 25X1

TYURATAM/KAMCHATKA MTC IMPACT TRACKING FAC G

WAC NO : 0132 BE/OBJ NO: EPF CAT : 25C

UR 570142N 1620114E NPIC NO : 25 COMIREX NO:

25X1

AF ENDR D1513-77 25 JUL 77 SEC CLASS: 13 MSN: 1P

ACCN: S081642 25X1

NUCLEAR, SS-9/SS-18 WARHEAD TRANS TYPE-3

WAC NO : BE/OBJ NO: EPF CAT : 55D

UR NPIC NO : COMIREX NO:

25X1

AF ENDR D4546-2-70 30 AUG 77 SEC CLASS: 13 MSN: 1P

ACCN: S081643 25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT

WAC NO : 0165 BE/OBJ NO: EPF CAT : 40E

UR 532053N 0501231E NPIC NO : - 17-A COMIREX NO:

25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT

WAC NO : 0165 BE/OBJ NO: EPF CAT : 05G

UR 532053N 0501231E NPIC NO : - 17-A COMIREX NO:

25X1

AF ENDR D6523-5-71 30 AUG 77 SEC CLASS: 13 MSN: 1P

ACCN: S081644 25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT

WAC NO : 0165 BE/OBJ NO: EPF CAT : 05G

UR 532053N 0501231E NPIC NO : - 17-A COMIREX NO:

25X1

KUYBYSHEV EXPERIMENTAL A/C + ROCKET ENG PLANT

WAC NO : 0165 BE/OBJ NO: EPF CAT : 40E

UR 532053N 0501231E NPIC NO : - 17-A COMIREX NO:

25X1

AF ENDR E1515-77 30 AUG 77 SEC CLASS: 13 MSN: 1P

ACCN: S081646 25X1

AIRCRAFT, BACKFIRE B

UR

2041 TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

WAC NO :
IDHS CODE:

BE/OBJ NO: [Redacted]
EPF CAT : 05D

NPIC NO :
COMIREX NO:

25X1

AF ENDR E1516-2-73 18 AUG 77 [Redacted] SEC CLASS: 13 MSN: 1P ACCN: S081647 25X1

MISSILES, SS-9 GROUND SUPPORT EQUIPMENT
WAC NO :
IDHS CODE:

UR
BE/OBJ NO: [Redacted]
EPF CAT : 40A
NPIC NO :
COMIREX NO:

()

AF ENDR E6563-5-70 11 AUG 77 [Redacted] SEC CLASS: 13 MSN: 1P ACCN: S081648 25X1

TAGANROG AIRFRAME PLANT DIMITROV 86
WAC NO : 0249
IDHS CODE: [Redacted]

UR 471154N 0385221E
BE/OBJ NO: [Redacted]
EPF CAT : 05G
NPIC NO : - 38-D
COMIREX NO: [Redacted]

25X1

25X1

25X1

[Redacted]

NPIC BIIR RCA19-0002-77 OCT 77 [Redacted] SEC CLASS: 14B MSN: [Redacted] 38P ACCN: S081652 25X1

SARY SHAGAN MTC
WAC NO : 0245
IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]
EPF CAT : 40E

UR 460147N 0724009E
NPIC NO : - 2
COMIREX NO: [Redacted]

25X1

25X1

THIS REPORT DISCUSSES THE SIGNIFICANT DEVELOPMENTS OBSERVED AT SARY-SHAGAN MISSILE TEST CENTER (MTC),
USSR, [Redacted] THE DEVELOPMENTS ARE AS FOLLOWS:

25X1

AT LAUNCH COMPLEX A [Redacted] ELECTRONICS SITE B, AN ACQUISITION RADAR FOR THE SA-X-10
MISSILE SYSTEM WAS OBSERVED IN THE TRAVEL MODE.

25X1

AT LAUNCH COMPLEX A, LAUNCH SITE 2, A MODIFIED FAN SONG RADAR WAS IDENTIFIED.

AT LAUNCH COMPLEX B [Redacted] LAUNCH FACILITY C, TWO MISSILE SILOS WERE UNDER
CONSTRUCTION.

25X1

AT LAUNCH COMPLEX D [Redacted] TWO GALOSH ABM LAUNCHERS HAD BEEN REMOVED FROM THE LAUNCH
AREA.

AT LAUNCH COMPLEX D, HIGH-POWERED OPTICAL R+D FACILITY, THE SLIDING SHELTER WAS OPEN ON TWO DATES
OF COVERAGE, EXPOSING THE OPTICAL MOUNT.

AT LAUNCH COMPLEX E [Redacted] TRACKING FACILITY AREA E (FORMERLY TRACKING FACILITY 3), THE
HEN EGG RADAR HAD BEEN REMOVED.

25X1

AT LAUNCH COMPLEX F [Redacted], THREE SH-04 ABM LAUNCHERS HAD BEEN REMOVED AND TWO MISSILE
SILOS AND AN ABOVE GROUND LAUNCH POSITION WERE UNDER CONSTRUCTION.

25X1

AT LAUNCH COMPLEX G [Redacted], TWO ADDITIONAL ENGAGEMENT RADARS FOR THE SA-X-10 MISSILE SYSTEM WERE

25X1

2042

TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

OBSERVED IN THE LAUNCH AREA.

AT THE PROBABLE ELECTRONICS TEST FACILITY [REDACTED] AREA 7, A SQUARE PAIR RADAR WAS SET UP AND ONE OF THE BACK-TO-BACK PLANAR APERTURE RADARS (SH-EL-03) HAD BEEN FOLDED DOWN OR PARTIALLY DISASSEMBLED.

25X1

AT THE MISSILE-RELATED FACILITY [REDACTED] IN THE SUSPECT LINEAR TEST FACILITY, AN OPTICAL DOME WAS INSTALLED ON THE INCLINED SURFACE OF THE EXTENSION TO THE STRUCTURAL STEEL BUILDING.

25X1

AT RESEARCH + DEVELOPMENT (R+D) RADAR FACILITY 1 [REDACTED], THE BIG SCREEN RADAR WAS DISMANTLED; A CONCAVE RADAR WAS COMPLETED, AND A LARGE PROBABLE PHASED-ARRAY RADAR WAS UNDER CONSTRUCTION.

25X1

AT R+D RADAR FACILITY 3 [REDACTED] SQUARE PAIR RADARS WERE SET UP AT OPPOSITE ENDS OF THE CONTROL BUILDING HOUSING THE TWO LARGE ELECTRONICS DEVICES WHICH WILL TENTATIVELY BE REFERRED TO AS THE NORTHERN AND SOUTHERN RADARS.

25X1

AT THE HEN HOUSE RADAR FACILITY [REDACTED] LATTICE TOWERS OR PADS HAVE BEEN CONSTRUCTED IN FRONT OF SOME OF THE HEN HOUSE BUILDINGS. A LARGE POSSIBLE RADAR IS UNDER CONSTRUCTION 1,930 METERS SOUTH OF THIS FACILITY.

25X1

AT THE SARY-SHAGAN MAIN AIRFIELD [REDACTED] AN SH-04 ABM CANISTER ON A TRANSPORTER-ERECTOR-LOADER WAS IDENTIFIED ADJACENT TO THE MAIN AIRFIELD HANGER.

25X1

AT THE OPERATIONS SUPPORT BASE [REDACTED], THE SAM SUPPORT FACILITY HAD BEEN EXPANDED.

25X1

THIS REPORT UPDATES NPIC [REDACTED] A REPORT ON THE SARY-SHAGAN MTC. INCLUDED IN THIS REPORT ARE ONE MAP, THREE TABLES, 39 ANNOTATED PHOTOGRAPHS, AND EIGHT DRAWINGS.

25X1

DIA IIM 5B2-57449-77 OCT 77 [REDACTED] SEC CLASS: 14 MSN: [REDACTED] 17P ACCN: S081652 25X1

KRASNOVODSK PORT COMPLEX CASPIAN SEA UR 400026N 0530022E
WAC NO : 0326 BE/OBJ NO: [REDACTED] NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 75I COMIREX NO:

25X1

25X1

DIA IIM 5B2-57464-77 OCT 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 17P ACCN: S081653 25X1

KOTLAS PORT COMPLEX VYCHEGDA RIVER UR 611656N 0464020E
WAC NO : 0101 BE/OBJ NO: [REDACTED] NPIC NO :
IDHS CODE: [REDACTED] EPF CAT : 75I COMIREX NO:

25X1

25X1

DIA IIM 5B2-57581-77 OCT 77 [REDACTED] SEC CLASS: 13 MSN: [REDACTED] 10P ACCN: S081654 25X1

DECIN PORT COMPLEX CZ 504740N 0141340E
WAC NO : 0231 BE/OBJ NO: [REDACTED] NPIC NO : - 42-A2
IDHS CODE: [REDACTED] EPF CAT : 75I COMIREX NO: [REDACTED]

25X1

25X1

25X1

2043
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B3-57608-77 13 OCT 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: 508165625X1
 SOVETSK AIRFIELD POL STORAGE CAPACITY UR 573355N 0485731E
 WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 35 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: 25X1

DIA IIM 5B3-57609-77 OCT 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: 508165725X1
 LEBYAZHYE/VYATKA AIRFIELD UR 572410N 0493200E
 WAC NO : 0155 BE/OBJ NO: [] NPIC NO : - 58 25X1
 IDHS CODE: [] EPF CAT : 05A COMIREX NO: 25X1

DIA IIM 5B3-57610-77 OCT 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: 508165825X1
 JELGAVA/TERVETE AIRFIELD POL STORAGE CAPACITY UR 562806N 0232617E
 WAC NO : 0153 BE/OBJ NO: [] NPIC NO : - 132 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: 25X1

DIA IIM 5B3-57611-77 OCT 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: 508165925X1
 IVANOV/ZHUKOVKA AIRFIELD POL STORAGE CPCTY UR 565634N 0405713E
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : - 19-J 25X1
 IDHS CODE: [] EPF CAT : 05I COMIREX NO: 25X1

DIA NBRG NDA07-5347-77 14 OCT 77 [] SEC CLASS: 05B MSN: [] 1P ACCN: 5081661
 TBILISI ARMY BARRACKS MTSKHETA AL11 UR 415030N 0444350E
 WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 64-C 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

DIA NBRG NDA07-5348-77 14 OCT 77 [] SEC CLASS: 05B MSN: [] 1P ACCN: 5081662
 VOLGOGRAD MILITARY BARRACKS ZELENYY AL12 UR 484735N 0444123E
 WAC NO : 0235 BE/OBJ NO: [] NPIC NO : - 16-G1 25X1
 IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

2044
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

DIA	NBRG	NDA07-5349-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081663
		ORDZHONIKIDZE ARMY BARRACKS AL4/5		UR	430150N 0444010E		
		WAC NO : 0325	BE/OBJ NO: []	NPIC NO	: - 18-H		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5350-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081664
		ORDZHONIKIDZE ARMY BARRACKS TEREK RIVER AL10		UR	425930N 0444105E		
		WAC NO : 0325	BE/OBJ NO: []	NPIC NO	: - 18-E1		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5351-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081665
		BUYNAKSK ARMY BARRACKS AL3		UR	424850N 0470715E		
		WAC NO : 0325	BE/OBJ NO: []	NPIC NO	: - 100-B3		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5352-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081666
		GROZNYI ARMY BARRACKS SOUTH AL14 SHALI		UR	430615N 0454910E		
		WAC NO : 0325	BE/OBJ NO: []	NPIC NO	: - 133-A		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5353-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081667
		NOVOCHERKASSK ARMY BARRACKS AL7		UR	473125N 0400600E		
		WAC NO : 0249	BE/OBJ NO: []	NPIC NO	: - 27-F		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5354-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081668
		NOVOCHERKASSK ARMY BARRACKS ZHDANOVA AL2		UR	472510N 0400430E		
		WAC NO : 0249	BE/OBJ NO: []	NPIC NO	: - 27-D1		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5355-77	14 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081669
		NOVOCHERKASSK ARMY BARRACKS SE AL6		UR	472440N 0400710E		
		WAC NO : 0249	BE/OBJ NO: []	NPIC NO	: - 27-B3		25X1
		IDHS CODE: []	EPF CAT : 35A	COMIREX NO:	[]		25X1
DIA	NBRG	NDA07-5342-77	12 OCT 77	SEC CLASS: 05B	MSN:	1P	ACCN: S081670

25X1

2045
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



25X1

	TAMBOV ARMY BARRACKS AL1 + HQ MRD	UR 524101N 0412812E	
	WAC NO : 0166 BE/OBJ NO: []	NPIC NO : - 31-M	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5343-77 12 OCT 77	SEC CLASS: 05B MSN:	1P ACCN: S081671
	SVALYAVA ARMY BARRACKS AL1/SAM SUPPORT FACIL	UR 483329N 0225918E	()
	WAC NO : 0232 BE/OBJ NO: []	NPIC NO : - 107-R	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
	SVALYAVA ARMY BARRACKS AL1/SAM SUPPORT FACIL	UR 483329N 0225918E	25X1
	WAC NO : 0232 BE/OBJ NO: []	NPIC NO : - 107-R	25X1
	IDHS CODE: [] EPF CAT : 40C	COMIREX NO: []	25X1
DIA	NBRG NDA07-5344-77 12 OCT 77	SEC CLASS: 05B MSN:	1P ACCN: S081672
	SHEPETOVKA SAM SUPPORT FACILITY	UR 500957N 0270542E	
	WAC NO : 0233 BE/OBJ NO: []	NPIC NO : - 51-B2	25X1
	IDHS CODE: [] EPF CAT : 40C	COMIREX NO: []	25X1
DIA	NBRG NDA07-5345-77 12 OCT 77	SEC CLASS: 05B MSN:	1P ACCN: S081673
	SAPERNOYE ARMY BARRACKS AL1 + HQ GUARDS MRD	UR 604250N 0295725E	
	WAC NO : 0103 BE/OBJ NO: []	NPIC NO : - 27-A	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
DIA	NBRG NDA07-5346-77 12 OCT 77	SEC CLASS: 05B MSN:	1P ACCN: S081674
	TALDY KURGAN ARMY BARRACKS AL2	UR 450000N 0782030E	
	WAC NO : 0244 BE/OBJ NO: []	NPIC NO : - 9-D	25X1
	IDHS CODE: [] EPF CAT : 35A	COMIREX NO: []	25X1
CIA	BIIR RCS13-0009-77 SEP 77	SEC CLASS: 05C MSN:	9P ACCN: S081675
	VOSKRESENSK CHEMICAL COMBINE KUYBYSHEV 192	UR 551819N 0384124E	
	WAC NO : 0167 BE/OBJ NO: []	NPIC NO : - 150	25X1
	IDHS CODE: [] EPF CAT : 30F	COMIREX NO: []	25X1

THE VOSKRESENSK CHEMICAL COMBINE KUYBYSHEV 192 PRODUCES PRIMARILY NITROGEN AND PHOSPHATE FERTILIZERS. ITS MAIN PRODUCTS INCLUDE NITROGEN-PHOSPHORUS-POTASSIUM (NPK) FERTILIZER, MONAMMONIUM PHOSPHATE FERTILIZER, SINGLE SUPERPHOSPHATE FERTILIZER, TRIPLE SUPERPHOSPHATE FERTILIZER, AND PHOSPHORITE FERTILIZER. IT ALSO PRODUCES AMMONIA, NITRIC ACID, PHOSPHORIC ACID, SULFURIC ACID, AND, REPORTEDLY, HYDROCHLORIC ACID.



25X1

2046
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE COMBINE AND A TABLE THAT SUMMARIZES ITS PRODUCTION AREAS AND PROVIDES THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE COMBINE.

CIA BIIR RCS13-0013-77 SEP 77 SEC CLASS: 05C MSN: 8P ACCN: S081676

RUSTAVI CHEMICAL PLANT
WAC NO : 0325 BE/OBJ NO: [] UR 413208N 0450318E
IDHS CODE: [] EPF CAT : 30F NPIC NO : - 52-J2
COMIREX NO: []

25X1
25X1

RUSTAVI CHEMICAL PLANT PRODUCES NITROGEN FERTILIZERS, A FEEDSTOCK FOR SYNTHETIC FIBER, AND POSSIBLY TOXIC AGRICULTURAL CHEMICALS. ITS MAIN PRODUCTS INCLUDE AMMONIUM NITRATE AND UREA FERTILIZERS, CAPROLACTAM, AMMONIA, NITRIC ACID, SULFURIC ACID, AND POSSIBLY DRY ICE, ARGON, CYANOGEN SALTS, HYDROGEN CYANIDE, AND AMMONIUM SULFATE.

THIS REPORT INCLUDES A GENERAL DISCUSSION OF THE PLANT AND A TABLE SUMMARIZING ITS PRODUCTION AREAS AND THE VOLUMES OF MAJOR PRODUCTION BUILDINGS. THE TABLE IS KEYED TO A PHOTOGRAPH OF THE PLANT.

NPIC IIR IIR071-77 13 OCT 77 SEC CLASS: 05C MSN: 3P ACCN: S081677

CHINCHENG AIRCRAFT ENGINE TEST FACILITY PROB [] CH 352650N 1125825E
WAC NO : 0385 BE/OBJ NO: [] NPIC NO : - 56-A2
IDHS CODE: [] EPF CAT : 05G COMIREX NO:

25X1
25X1

A PROBABLE AIRCRAFT ENGINE TEST FACILITY WAS IDENTIFIED 7.5 NAUTICAL MILES SOUTHEAST OF CHIN-CHENG, SHANSI PROVINCE, CHINA, [] THIS FACILITY WAS PREVIOUSLY DESIGNATED CHIN-CHENG FABRICATION INDUSTRY.

25X1

NPIC MEMO [] 18 OCT 77 [] SEC CLASS: 14B MSN: [] 18P ACCN: S081678

LVOV RADIO COMMO XMTR STA JOINT COMMAND HARD [] UR 495219N 0233959E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 95-0
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1
25X1

LVOV COMMAND CONTROL RADIO COMMO FAC BKR U/I [] UR 494340N 0240705E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 95-T7
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1

LVOV RADIO COMMUNICATIONS STATION SE [] UR 494903N 0241319E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 95-T2
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1
25X1

LVOV RADIO COMMUNICATIONS STATION PODBORTSY [] UR 494859N 0241050E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 95-T1
IDHS CODE: [] EPF CAT : 25D COMIREX NO:

25X1
25X1

LVOV RADIO RELAY + RADIO COMMO XMTR STATION [] UR 495100N 0240043E
WAC NO : 0232 BE/OBJ NO: [] NPIC NO : - 95-62

25X1

2047
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
LVOV RADIO RELAY/RADCOM XMTR STA AERONAUTICAL	UR 494930N 0235905E		
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 95-A1	25X1
IDHS CODE: []	EPF CAT : 25H	COMIREX NO:	25X1
KAMENKA BUGSKAYA HF COMMUNICATIONS FACILITY	UR 500512N 0242108E		
WAC NO : 0232	BE/OBJ NO: []	NPIC NO : - 64-D2	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

THIS MEMO DESCRIBES BUNKERED COMMUNICATIONS FACILITIES IN THE AREA OF LVOV. ANNOTATED PHOTOGRAPHS, ANTENNA INFORMATION, AND DESCRIPTIONS ARE PROVIDED FOR EACH FACILITY.*

NPIC MEMO [] 19 OCT 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: 5081 ^{25X1}25X1

DILIZHAN RADIO RELAY + TV BROADCASTING STA	UR 403930N 0445530E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 16-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
DILIZHAN RADIO RELAY + TV BROADCASTING STA	UR 403930N 0445530E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 16-A1	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
LUSAVAN RADIO RELAY STATION	UR 402210N 0443940E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 88-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KAMO RADIO RELAY/RADCOM + AM BDCST XMTR STA	UR 402452N 0451136E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 118	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
KAMO RADIO RELAY/RADCOM + AM BDCST XMTR STA	UR 402452N 0451136E		
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 118	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO: []	25X1
YEREVAN/KAMO RADIO RELAY LINE	UR 4011 N 04430 E		
WAC NO : 0325	BE/OBJ NO:	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
KAMO/YEREVAN RADIO RELAY LINE	UR 4024 N 04511 E		
WAC NO : 0325	BE/OBJ NO:	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

2048
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1



25X1

NPIC BIIR RCA09-0014-77 OCT 77 [redacted] SEC CLASS: 14B MSN: [redacted] 4P ACCN: S081681

25X1

KIYEV AIRCRAFT COMPONENT + MSL PROD PLANT 485	UR	502740N 0302910E
WAC NO : 0233	BE/OBJ NO: [redacted]	NPIC NO : - 29-D1
IDHS CODE: [redacted]	EPF CAT : 40E	COMIREX NO: [redacted]
KIYEV AIRCRAFT COMPONENT + MSL PROD PLANT 485	UR	502740N 0302910E
WAC NO : 0233	BE/OBJ NO: [redacted]	NPIC NO : - 29-D1
IDHS CODE: [redacted]	EPF CAT : 05G	COMIREX NO: [redacted]

25X1
25X1

25X1
25X1

KIYEV AIRCRAFT COMPONENT AND MISSILE PRODUCTION PLANT 485 HAS HAD A LONG HISTORY OF PRODUCTION OF AIRCRAFT COMPONENTS AND AIR-TO-AIR MISSILES. PLANT 485 IS A KNOWN PRODUCER OF ATOLL (AA-2), ANAB (AA-3), AND ASH (AA-5) AIR-TO-AIR MISSILES. RECENT PHOTOGRAPHIC OBSERVATION OF PROBABLE APEX (AA-7) MISSILE AND WING SHIPPING CONTAINERS INDICATES THAT THE PLANT MAY BE PRODUCING THE APEX AIR-TO-AIR MISSILE SYSTEM. IN APRIL 1977 THE PLANT COMPRISED 62 BUILDINGS AND STRUCTURES CONTAINING A TOTAL FLOORSPACE OF 204,730 SQUARE METERS.

THIS REPORT INCLUDES A DETAILED DESCRIPTION OF KIYEV PLANT 485, A LOCATION MAP, PHOTOGRAPHS, AND A TABLE OF MENSURAL AND CHRONOLOGICAL DATA.

DIA BIIR RDA05-0008-77 OCT 77 [redacted] SEC CLASS: 14D MSN: [redacted] 5P ACCN: S081682

25X1

USSURIYSK/VOZDVIZHENKA AIRFIELD	UR	435425N 1315547E
WAC NO : 0291	BE/OBJ NO: [redacted]	NPIC NO : - 50
IDHS CODE: [redacted]	EPF CAT : 05A	COMIREX NO: [redacted]

25X1
25X1
25X1

USSURIYSK/VOZDVIZHENKA ASM FACILITY	UR	435505N 1315530E
WAC NO : 0291	BE/OBJ NO: [redacted]	NPIC NO : - 50-A2
IDHS CODE: [redacted]	EPF CAT : 40J	COMIREX NO: [redacted]
USSURIYSK/VOZDVIZHENKA AIRCRAFT REPAIR BASE	UR	435512N 1315450E
WAC NO : 0291	BE/OBJ NO: [redacted]	NPIC NO :
IDHS CODE: [redacted]	EPF CAT : 05F	COMIREX NO:
USSURIYSK AAM SUPPORT FACILITY	UR	435505N 1315706E
WAC NO : 0291	BE/OBJ NO: [redacted]	NPIC NO :
IDHS CODE: [redacted]	EPF CAT : 40J	COMIREX NO:

25X1
25X1

25X1
25X1

25X1
25X1
25X1



2049
TOP SECRET CHESS RUFF



25X1



TOP SECRET CHESS RUFF



25X1
25X1



25X1

USSURIYSK/VOZDVIZHENKA AIRFIELD GCA SITE	UR	435423N	1315553E
WAC NO : 0291	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 25H		COMIREX NO:
USSURIYSK/VOZDVIZHENKA AIRFIELD EW RADAR SITE	UR	435410N	1315510E
WAC NO : 0291	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 25H		COMIREX NO:
USSURIYSK EW RADAR SITE	UR	435024N	1320250E
WAC NO : 0291	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 25A		COMIREX NO:

25X1
25X1

25X1
25X1

25X1
25X1

THIS REPORT HAS BEEN PREPARED IN ACCORDANCE WITH DIA RESPONSIBILITIES FOR THIRD-PHASE IMAGERY EXPLOITATION UNDER THE NATIONAL TASKING PLAN TO UPDATE EXISTING BASIC REPORTS. IT UPDATES DIA, RDA-05/0101/72, [REDACTED] USSURIYSK/VOZDVIZHENKA AIRFIELD, U.S.S.R., MAR 72 (TOP SECRET RUFF) WHICH IS THE BASIC REPORT FOR THIS TARGET. ALL PERTINENT IMAGERY AVAILABLE TO THIS AGENCY ON THE REPORTING CUTOFF DATE OF 1 JANUARY 1977 HAS BEEN UTILIZED.

25X1

CIA NOTE ISSN0007J-77 07 OCT 77 [REDACTED] SEC CLASS: 25 MSN: 19P ACCN: 508168.25X1

MISSILES, ICBM SINGLE SILO CONVERSION	UR		
WAC NO :	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 40A		COMIREX NO:
MISSILES, SAM DEPLOYMENT	CH		
WAC NO :	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 40C		COMIREX NO:
KANDALAKSHSKIY ZALIV SUB SOUND TRIALS RANGE	UR	663121N	0345353E
WAC NO : 0091	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 75F		COMIREX NO:
PAOTOU ARMORED VEHICLE PLT 617 PROD INCREASE	CH	404006N	1095423E
WAC NO : 0288	BE/OBJ NO:		NPIC NO : - 13-6
IDHS CODE:	EPF CAT : 35G		COMIREX NO:
TRANSPORTATION, PETROLEUM PIPELINE NEW	CH		
WAC NO :	BE/OBJ NO:		NPIC NO :
IDHS CODE:	EPF CAT : 85E		COMIREX NO:
CHO DO OFFSHORE OIL DRILLING PLATFORM 1 U/C	KN	383319N	1243118E
WAC NO : 0380	BE/OBJ NO:		NPIC NO : - 85-6

25X1
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25X1

25X1

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25X1

2050
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 30A	COMIREX NO: []
PAENGMA RI PETROLEUM REFINERY U/C		KN 400420N 1243245E
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 73-D2
IDHS CODE: []	EPF CAT : 30B	COMIREX NO: []
INDUSTRY, ELECTRIC POWER PLANTS U/C		IZ
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 30E	COMIREX NO:
TANGSHAN RECONSTRUCTION POST-EARTHQUAKE		CH 393708N 1181146E
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 65
IDHS CODE: []	EPF CAT : 10D	COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

NPIC MEMO [] 12 OCT 77 [] SEC CLASS: 13 MSN: [] 2P ACCN: 5081686 25X1

ULAN UDE 1011Z EMITTER RADAR SEARCH UR 5139 N 10710 E
 WAC NO : 0201 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25A COMIREX NO:

DIA IIM 5B1-57551-77 OCT 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: 5081689 25X1

2051
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ZURAWICA ARMY BARRACKS 2

WAC NO : 0232

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 35A

PL 494917N 0224926E

NPIC NO :

COMIREX NO:

25X1

25X1

DIA IIM 5B3-55725-77 03 NOV 77 [] SEC CLASS: 13 MSN: [] 3P

ACCN: S08169(25X1

KORF AIRFIELD POL STORAGE CAPACITY

WAC NO : 0121

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05I

UR 602250N 1660119E

NPIC NO : - 8

COMIREX NO: []

25X1

25X1

DIA IIM 5B3-57668-77 21 OCT 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: S08169(25X1

GASTELLO AIRFIELD

WAC NO : 0205

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 05A

UR 490635N 1425746E

NPIC NO : - 18

COMIREX NO:

25X1

25X1

DIA IIM 5B1-57573-77 OCT 77 [] SEC CLASS: 14B MSN: [] 1P

ACCN: S08169(25X1

BEKESCSABA TACTICAL MISSILE RELATED FAC SRCH

WAC NO : 0251

IDHS CODE:

BE/OBJ NO:

EPF CAT : 40

HU 4640 N 02104 E

NPIC NO :

COMIREX NO:

25X1

DIA IIM 5B2-57590-77 OCT 77 [] SEC CLASS: 14 MSN: [] 18P

ACCN: S08169(25X1

WROCLAW PORT COMPLEX WEST ODER RIVER

WAC NO : 0232

IDHS CODE: []

BE/OBJ NO: []

EPF CAT : 75I

PL 510746N 0170108E

NPIC NO : - 15-G

COMIREX NO: []

25X1

25X1

25X1

DIA IIM 5B1-57643-77 OCT 77 [] SEC CLASS: 14 MSN: [] 3P

ACCN: S08169(25X1

SWINOUJSCIE MILITARY BARRACKS 202

PL 535500N 0141420E

25X1

2052
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

WAC NO : 0169 BE/OBJ NO: [] NPIC NO : - 150-B2
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1

25X1

DIA IIM 5B3-57662-77 25 OCT 77 [] SEC CLASS: 13 MSN: [] 7P

ACCN: 5081697

UKRAINA AIRFIELD BISON M-4 COUNT
WAC NO : 0203 BE/OBJ NO: [] UR 511007N 1282639E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 28
COMIREX NO: []

25X1

25X1

ENGELS AIRFIELD BISON M-4 COUNT
WAC NO : 0235 BE/OBJ NO: [] UR 512845N 0461250E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 6
COMIREX NO: []

25X1

25X1

DIA IIM 5B3-57670-77 21 OCT 77 [] SEC CLASS: 13 MSN: [] 1P

ACCN: 5081698

CHUNDZHA AIRFIELD
WAC NO : 0329 BE/OBJ NO: [] UR 433520N 0792540E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 42-A
COMIREX NO: []

25X1

25X1

DIA IIM 5B3-57673-77 21 OCT 77 [] SEC CLASS: 13 MSN: [] 4P

ACCN: 5081699

ARALSK AIRFIELD POL STORAGE CAPACITY
WAC NO : 0246 BE/OBJ NO: [] UR 464935N 0613650E
IDHS CODE: [] EPF CAT : 05I NPIC NO : - 2-B
COMIREX NO: []

25X1

25X1

DIA IIM 5B3-57674-77 21 OCT 77 [] SEC CLASS: 13 MSN: [] 2P

ACCN: 5081700

KARSHI AIRFIELD SOUTH
WAC NO : 0337 BE/OBJ NO: [] UR 384822N 0654615E
IDHS CODE: [] EPF CAT : 05A NPIC NO : - 3-A
COMIREX NO: []

25X1

25X1

25X1

NPIC MEMO [] 26 OCT 77 [] SEC CLASS: 14B MSN: [] 2P

ACCN: 5081702

RZHEV COMMAND CONTROL FACILITY EAST BKR U/I
WAC NO : 0154 BE/OBJ NO: [] UR 561455N 0342820E
IDHS CODE: [] EPF CAT : 25D NPIC NO : - 50-C
COMIREX NO: []

25X1

25X1

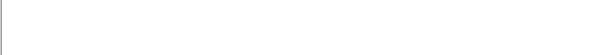
RZHEV UNIDENTIFIED COMMAND AND CONTROL FACILITY EAST BUNKERED WAS ANALYZED TO PROVIDE A DESCRIPTION OF

2053
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1

THE FACILITY, ORIENTATION OF THE R-406 AND R-400 RADIO-RELAY ANTENNAS, AND DATE WHEN THE R-406 RADIO-RELAY ANTENNAS WERE FIRST OBSERVED.*

DIA	NBRG	NDA06-5087-77	27 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081703
		PETROPAVLOVSK NAVAL FACILITIES NE APPROACHES		UR	5300 N	15838 E		
		WAC NO : 0194	BE/OBJ NO: []	NPIC NO :				25X1
		IDHS CODE: []	EPF CAT : 75	COMIREX NO:				25X1
DIA	NBRG	NDA06-5088-77	27 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081704
		PETROPAVLOVSK NAVAL BASE MYS IZMENNYY		UR	525635N	1583917E		
		WAC NO : 0194	BE/OBJ NO: []	NPIC NO :	-	11-S1		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]			25X1
DIA	NBRG	NDA06-5089-77	27 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081705
		PETROPAVLOVSK NAVAL BASE RAKOVAYA GUBA		UR	525740N	1583945E		
		WAC NO : 0194	BE/OBJ NO: []	NPIC NO :	-	12-Y		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]			25X1
DIA	NBRG	NDA06-5090-77	27 OCT 77		SEC CLASS: 05G	MSN:	1P	ACCN: S081706
		PETROPAVLOVSK MISSILE PATROL BOAT BASE		UR	525825N	1584004E		
		WAC NO : 0194	BE/OBJ NO: []	NPIC NO :	-	12-N2		25X1
		IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]			25X1
NPIC	SR	SR077-77	OCT 77	[]	SEC CLASS: 14	MSN:	3P	ACCN: S0817025X1
		LOURDES SPACE ASSOCIATED ELECTRONICS FACILITY		CU	225855N	0822748W		
		WAC NO : 0586	BE/OBJ NO: []	NPIC NO :	-	458-D3		25X1
		IDHS CODE: []	EPF CAT : 25C	COMIREX NO:				25X1
		VICAK SPACE TRACKING FACILITY		UR	573330N	0215100E		
		WAC NO : 0152	BE/OBJ NO: []	NPIC NO :	-	0-M1		25X1
		IDHS CODE: []	EPF CAT : 25C	COMIREX NO:	[]			25X1
CONTINUING ANALYSIS OF THE SPACE-ASSOCIATED ELECTRONICS FACILITY AT LOURDES MILITARY HEADQUARTERS TORRENS, CUBA, REVEALED A SIMILARITY BETWEEN THAT FACILITY AND THE OPERATIONS AREA AT VICAK SPACE TRACKING FACILITY, USSR.								
CIA	BIIR	RCS13-0023-77	OCT 77	[]	SEC CLASS: 13	MSN:	34P	ACCN: S0817025X1
		CHANGCHUN CEMENT PLANT EAST		CH	435400N	1252350E		

2054

TOP SECRET CHESS RUFF



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TOP SECRET CHESS RUFF

25X1

WAC NO : 0290	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHIHSIEN CEMENT PLANT		CH 464215N 1310920E	25X1
WAC NO : 0282	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHIAMUSSU CEMENT PLANT		CH 464640N 1302650E	25X1
WAC NO : 0283	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHINGCHENG CEMENT PLANT		CH 465245N 1273115E	25X1
WAC NO : 0283	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
CHUANTOU CEMENT PLANT		CH 425110N 1240930E	25X1
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 173	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
FULAERHCHI CEMENT PLANT		CH 471155N 1233625E	25X1
WAC NO : 0283	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
KUOCHIATIEN CEMENT PLANT		CH 431930N 1243600E	25X1
WAC NO : 0290	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
SANSHIHLIPAO CEMENT PLANT		CH 390050N 1213455E	25X1
WAC NO : 0381	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
INDUSTRY CEMENT PLANTS ROTARY KILN		CH	
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 30B	COMIREX NO:	
TUCHENG TZU CEMENT PLANT		CH 385600N 1211600E	25X1
WAC NO : 0381	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
TIENSHUI CEMENT PLANT		CH 370830N 1064658E	25X1
WAC NO : 0383	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
TATUNG CEMENT PLANT TSINGHAI		CH 370220N 1013450E	25X1
WAC NO : 0332	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
SHIHLING TZU CEMENT PLANT		CH 430520N 1244220E	25X1
WAC NO : 0290	BE/OBJ NO: []	NPIC NO : - 57-H1	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1
SUNGCHIANG CEMENT PLANT		CH 310220N 1211225E	25X1
WAC NO : 0492	BE/OBJ NO: []	NPIC NO :	25X1
IDHS CODE: []	EPF CAT : 30B	COMIREX NO:	25X1

SINCE 1970, THE CHINESE CEMENT INDUSTRY HAS IMPROVED THE QUALITY, INCREASED THE QUANTITY, AND GENERALLY

25X1

2055
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

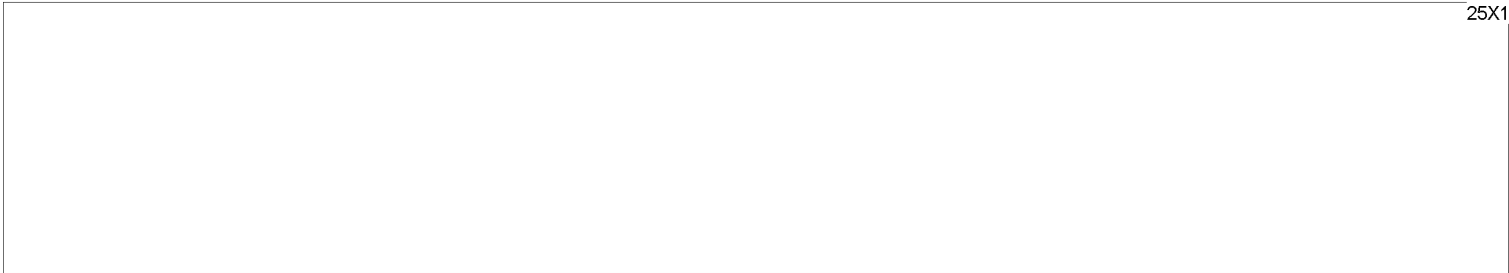


25X1

IMPROVED THE EFFICIENCY OF CEMENT PRODUCTION THROUGH THE CONTINUING INTRODUCTION OF ROTARY KILNS. OIA HAS NOW IDENTIFIED 90 ROTARY KILN CEMENT PLANTS IN CHINA THAT CONTAIN A TOTAL OF AT LEAST 182 ROTARY KILNS. WHEN LAST OBSERVED, THERE WERE 158 OPERATIONAL ROTARY KILNS AT 73 PLANTS. AN ADDITIONAL 17 KILNS APPEARED TO BE OPERATIONAL AND SEVEN WERE UNDER CONSTRUCTION. PRIOR TO 1970, THERE WERE 57 ROTARY KILN CEMENT PLANTS CONTAINING 114 ROTARY KILNS. THE CHINESE HAVE ALSO CONSTRUCTED KILNS WITH CYCLONE SUSPENSION PREHEATERS AT SIX PLANTS. SUSPENSION PREHEATERS INCREASE EFFICIENCY BY USING THE HOT EXHAUST GASES FROM THE ROTARY KILNS TO START THE PROCESSING OF CEMENT.

SINCE 1970, 18 ROTARY KILN PLANTS HAVE BEEN NEWLY CONSTRUCTED AND 15 PREVIOUSLY EXISTING VERTICAL KILN PLANTS HAVE HAD ROTARY KILNS ADDED.

THIS REPORT INCLUDES A TABULAR SUMMARY OF DATA ON THE 90 KNOWN ROTARY KILN PLANTS, DESCRIPTIONS AND PHOTOGRAPHS OF 13 RECENTLY IDENTIFIED PLANTS, AND A SUMMARY OF SIGNIFICANT CHANGES AT THREE PLANTS.



25X1

DIA BIIR RDA05-0009-77 OCT 77 [redacted] SEC CLASS: 14B MSN: [redacted] 5P ACCN: S08171 25X1

POCHINOK AIRFIELD	WAC NO : 0167	BE/OBJ NO: [redacted]	UR 542027N 0322828E
IDHS CODE: [redacted]	EPF CAT : 05A	NPIC NO : - 69	COMIREX NO: [redacted]
POCHINOK AIRFIELD GCA SITE	WAC NO : 0167	BE/OBJ NO: [redacted]	UR 542029N 0322824E
IDHS CODE: [redacted]	EPF CAT : 25H	NPIC NO :	COMIREX NO:
POCHINOK AIRFIELD GCI SITE	WAC NO : 0167	BE/OBJ NO: [redacted]	UR 542035N 0322715E
IDHS CODE: [redacted]	EPF CAT : 25H	NPIC NO : - 69-B4	COMIREX NO:

25X1

225X1

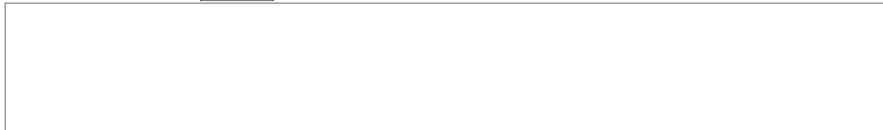
25X1

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2056

TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

POCHINOK RADIO COMMUNICATIONS STATION BUNKER		UR	542050N 0322915E
WAC NO : 0167	BE/OBJ NO:	NPIC NO :	- 69-B5
IDHS CODE:	EPF CAT : 25D	COMIREX NO:	

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THIS REPORT HAS BEEN PREPARED IN ACCORDANCE WITH DIA RESPONSIBILITIES FOR THIRD-PHASE IMAGERY EXPLOITATION UNDER THE NATIONAL TASKING PLAN TO UPDATE EXISTING BASIC REPORTS. IT UPDATES RDA-05/0074/74, POCHINOK AIRFIELD, U.S.S.R., MAY 74 (TOP SECRET RUFF) WHICH IS THE BASIC REPORT FOR THIS TARGET. ALL PERTINENT IMAGERY AVAILABLE TO THIS AGENCY ON THE REPORTING CUTOFF DATE OF 1 MARCH 1977 HAS BEEN UTILIZED.

25X1

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2057
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

25X1

ARMY BIIR RAC24-0001-77 OCT 77 SEC CLASS: 14B MSN: 13P ACCN: S08171

ELECTRONICS, VIEWPOINT ECM/INTERCEPT SYSTEM	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25	COMIREX NO:
ELECTRONICS, URAL-375 VIEWPOINT ASSOC VEHICLE	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25	COMIREX NO:

THIS REPORT PROVIDES A DETAILED PHYSICAL DESCRIPTION OF THE VIEWPOINT, THE NEW SOVIET PROBABLE ELECTRONIC WARFARE ANTENNA SYSTEM. IT CONSISTS OF AN ARRAY OF FOUR PARABOLIC DISH ANTENNAS, DIFFERING IN SIZE, AND TWO BOX-LIKE STRUCTURES ATTACHED TO A LATTICE MAST. THE ARRAY IS MOUNTED ON THE ROOF OF A URAL-375 VAN. INFORMATION CONTAINED IN THIS REPORT WAS DERIVED FROM SELECTED OVERHEAD AND SMALL-FORMAT IMAGERY AND INTELLIGENCE REPORTS. THERE ARE SEVEN ANNOTATED PHOTOGRAPHS, A LINE DRAWING WITH DIMENSIONS, A PERSPECTIVE DRAWING, AND 13 PAGES OF TEXT WITH A REFERENCE SECTION.

2058
TOP SECRET CHESS RUFF

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[Redacted] TOP SECRET CHESS RUFF [Redacted]

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DIA IIM 5B2-57709-77 NOV 77 [Redacted] SEC CLASS: 14 MSN: [Redacted] 8P ACCN: S08174 25X1

BAUTINO PORT FACILITIES CASPIAN SEA WAC NO : 0248 BE/OBJ NO: [Redacted] UR 443228N 0501556E NPIC NO : - 15 25X1

2064
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 75I COMIREX NO: []

25X1

CIA INFR IS10122-77 17 OCT 77 SEC CLASS: 05 MSN: 4P ACCN: S081747

MILITARY, GROUND FORCES TRAINING
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF-CAT : 35B COMIREX NO:

TWENTY-EIGHT CUBAN MILITARY INSTALLATIONS WERE STUDIED IN AN ATTEMPT TO DETERMINE IF THERE WERE ANY CHANGES IN THE LEVEL OF MILITARY TRAINING ACTIVITY PRIOR TO THE COMMITMENT OF CUBAN GROUND FORCES TO ANGOLA IN SEPTEMBER 1975. ALTHOUGH MILITARY TRAINING ACTIVITY WAS OBSERVED, SUFFICIENT REPETITIVE COVERAGE TO DETECT THE SUBTLE CHANGES IN THE LEVEL OR NATURE OF MILITARY TRAINING THAT WOULD JUSTIFY THE CONCLUSION THAT SOMETHING UNUSUAL WAS OCCURRING WAS LACKING.*

CIA INFR IS10123-77 14 OCT 77 SEC CLASS: 05 MSN: 2P ACCN: S081748

MILITARY, GREEK/TURKISH TROOP DISPOSITION
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

NO SIGNIFICANT CHANGE IN THE DISPOSITION OF GREEK AND TURKISH FORCES ON CYPRUS. THIS ANALYSIS IS BASED ON CLOUD FREE, SMALL-SCALE PHOTOGRAPHY OF THE ENTIRE ISLAND.

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CIA INFR IS10109J-77 28 SEP 77 [] SEC CLASS: 24 MSN: [] 28P ACCN: S081749

25X1

MILITARY, ARMORED/ARTILLERY UNITS WUHAN MR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35D COMIREX NO:

THIS MEMORANDUM IS AN ANALYSIS OF TWO ARMORED DIVISIONS, AN ARTILLERY DIVISION, AND AN ARTILLERY REGIMENT IN THE WU-HAN MILITARY REGION (MR). WU-HAN HAS BEEN TRADITIONALLY CONSIDERED THE REGION WHICH CONTAINS CHINA'S STRATEGIC RESERVE. THE UNITS DISCUSSED IN THIS REPORT ARE LOCATED ALONG RAIL LINES APPROXIMATELY 300 KILOMETERS (KM) NORTH OF THE CITY OF WU-HAN. THE TWO ARMOR DIVISIONS ARE CENTERED AROUND PING-TIN-SHAN AND CHUEH-SHAN. THE ARTILLERY DIVISION IS LOCATED AT CHUEH-SHAN, AND THE ARMY-LEVEL ARTILLERY REGIMENT IS AT SHA-HO-TIEN.

THIS MEMORANDUM CONTAINS A DISCUSSION OF THE UNITS AND A TABLE OF UNIT SUBORDINATION AND LOCATION. OIA BRIEFS AND PHOTOGRAPHS ANNOTATED IN THE NATIONAL BASIC REFERENCE GRAPHIC FORMAT ARE INCLUDED. THE INFORMATION PRESENTED IN THIS MEMORANDUM HAS BEEN COORDINATED WITH THE WU-HAN GROUND FORCES WORKING GROUP.

CIA INFR IS10093K-77 29 SEP 77 [] SEC CLASS: 13 MSN: 19P ACCN: S081750

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2065
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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MILITARY, ARMORED DIV PEICHING MR SHANHSI CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

AN ARMORED DIVISION IS LOCATED IN SOUTHERN SHANSI PROVINCE IN THE PEKING MILITARY REGION. ITS HEADQUARTERS IS PROBABLY LOCATED ON THE EASTERN EDGE OF CHANG-CHIH AND ITS THREE TANK REGIMENTS ARE LOCATED AT LU-CHENG, KAO-PING AND CHANG-CHIH. ALTHOUGH THE TANKS HAVE BEEN PRESENT SINCE 1971, CONSTRUCTION OF THE DIVISION'S INSTALLATIONS DID NOT BEGIN UNTIL 1973. THE BARRACKS AREAS WERE COMPLETED IN 1974, BUT MANY OF THE SHEDS FOR TRACKED VEHICLES WERE NEVER COMPLETED.

OIA HAS IDENTIFIED THE RECONNAISSANCE, MOTOR TRANSPORT, AND ANTI-AIRCRAFT SUPPORT FOR THE DIVISION HEADQUARTERS AND EACH OF THE DIVISION'S THREE TANK REGIMENTS. THEY HAVE NOT IDENTIFIED THE DIVISION HEADQUARTER'S FIELD ARTILLERY AND RIVER CROSSING SUPPORT. THE DIVISION IS SERVED BY A LARGE VEHICLE MAINTENANCE FACILITY.

THE TACTICAL MANEUVERING CAPABILITY OF THE DIVISION IS VERY POOR BECAUSE IT IS SURROUNDED BY MOUNTAINOUS TERRAIN UNSUITABLE FOR TANK MOVEMENT. TRAINING FACILITIES FOR THE DIVISION CONSIST ONLY OF TRACKED-VEHICLE DRIVER TRAINING AREAS AND SUBCALIBER RANGES.

CIA INFR IS10104K-77 29 SEP 77 [] SEC CLASS: 13 MSN: 5P ACCN: S0817525X1

MISSILES, SLBM POP-UP TEST PLATFORM NEW UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 406 COMIREX NO:

THE SOVIETS HAVE CONSTRUCTED AND DEPLOYED A POP-UP TEST PLATFORM FOR THE DEVELOPMENT OF A NEW NAVAL BALLISTIC MISSILE. THE PLATFORM WAS CONSTRUCTED AT NIKOLAYEV SHIPYARD 444 AND VERY RECENTLY TRANSFERRED TO BALAKLAVA WHERE SOVIET NAVAL MISSILE POP-UP TESTING IS CONDUCTED. THIS PLATFORM IS THE LARGEST THE SOVIETS HAVE CONSTRUCTED TO DATE INDICATING THAT THE MISSILE WILL BE THE LARGEST NAVAL BALLISTIC MISSILE YET TESTED BY THE SOVIETS.

CIA INFR TSD145-77 05 OCT 77 [] SEC CLASS: 14 MSN: [] 21P ACCN: S0817525X1

TAEJON EXPLOSIVES TESTING AREA KS 362439N 1271923E
WAC NO : 0380 BE/OBJ NO: [] NPIC NO : - 150-B
IDHS CODE: [] EPF CAT : 356 COMIREX NO: []

THIS MEMORANDUM CONTAINS PHOTOGRAPHS AND MEASUREMENTS OF BUILDINGS THAT HAVE BEEN CONSTRUCTED AT THE AGENCY FOR DEFENSE DEVELOPMENT (ADD) FACILITY NEAR TAEJON, SOUTH KOREA. RECENT COLLATERAL INFORMATION

2066
TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

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REPORTS THAT THE ADD FACILITY IS A SOLID PROPELLANT MANUFACTURING AND TESTING CENTER CONCERNED PRIMARILY WITH DEVELOPING AIR DEFENSE MISSILES. THE AREA PREVIOUSLY IDENTIFIED AS A NUCLEAR RESEARCH SECTION IS AN EXPLOSIVES TESTING AREA. PROPULSION RESEARCH AND PROPELLANT MANUFACTURING WILL BE CONDUCTED IN THE SECTION DESIGNATED AS THE AEROSPACE RESEARCH AREA.*

CIA INFR IS10083K-77 30 OCT 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S081753^{25X1}

SEVERODVINSK POPULATION EXPSN/SHIP PROD COMP UR 6434 N 03950 E
WAC NO : 0092 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:
SEVERODVINSK POPULATION EXPSN/SHIP PROD COMP UR 6434 N 03950 E
WAC NO : 0092 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:

PHOTOGRAPHY OF THE CITY OF SEVERODVINSK AND SEVERODVINSK SHIPYARD WAS ANALYZED TO DETERMINE HOW CHANGES IN NAVAL CONSTRUCTION PROGRAMS MAY HAVE BEEN REFLECTED IN THE CONSTRUCTION OF NEW HOUSING FOR THE CITY. THOUGH THE CITY EXPERIENCED SOME DISTINCT PERIODS OF GROWTH OVER THE YEARS, ANALYSIS SHOWED THAT THE GROWTH APPEARS TO HAVE BEEN PART OF AN OVERALL EXPANSION FOR CONTINUALLY INCREASING WORK AS THE SOVIET FLEET EXPANDED. NO CLEAR CORRELATION BETWEEN INITIATION OF NEW HOUSING CONSTRUCTION IN THE CITY AND CHANGES IN PRODUCTION PROGRAMS AT THE NAVAL FACILITIES WAS FOUND.*

CIA INFR IS10100J-77 21 SEP 77 [] SEC CLASS: 25 Y MSN: [] 5P ACCN: S081754^{25X1}

ANGANG AMMUNITION LDG PLT HIGH-SPEED CAM POSS KS 355911N 1291129E
WAC NO : 0387 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 65 COMIREX NO: []
ANGANG AMMUNITION LDG PLT HIGH-SPEED CAM POSS KS 355911N 1291129E
WAC NO : 0387 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 356 COMIREX NO: []

A WIDE AREA AROUND P'OHANG, SOUTH KOREA, WAS SEARCHED ON SATELLITE PHOTOGRAPHY FOR A MUNITIONS FACTORY AND TERMINAL BALLISTICS RANGE WHERE HIGH-SPEED FRAMING CAMERAS WERE REPORTEDLY INSTALLED IN EARLY 1977. SUCH A CAMERA SYSTEM COULD BE USED IN NUCLEAR WEAPONS DEVELOPMENT WORK. []

[] A CANDIDATE INSTALLATION, THE ANGANG AMMUNITION LOADING PLANT, WAS IDENTIFIED. A HIGH EXPLOSIVES TEST POINT AND AN ASSOCIATED BUNKER FOR HOUSING THE CAMERAS MAY HAVE BEEN UNDER CONSTRUCTION HERE.*

CIA INFR IS10094K-77 28 SEP 77 [] SEC CLASS: 13 MSN: [] 17P ACCN: S081755^{25X1}

NAVAL, RESTRICTED AREAS COASTAL WATERS YO
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75 COMIREX NO:
MILITARY, RESTRICTED AREAS COASTAL WATERS YO

2067
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF




25X1

WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 35	COMIREX NO:
GENERAL, RESTRICTED AREAS COASTAL WATERS		YO
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 10	COMIREX NO:

BETWEEN MARCH 1976 AND JANUARY 1977 THE GOVERNMENT OF YUGOSLAVIA MADE THREE ANNOUNCEMENTS IN THE OFFICIAL GAZETTE OF THE SFRY CONCERNING THE ESTABLISHMENT OF RESTRICTED AREAS ALONG THE COAST OF THE ADRIATIC SEA AND IN INTERNAL SEA WATERS. A TOTAL OF 24 RESTRICTED AREAS WERE LOCATED FROM THE INFORMATION PROVIDED IN THE YUGOSLAV GOVERNMENT ANNOUNCEMENTS. SATELLITE PHOTOGRAPHY OF 23 OF THESE AREAS WAS EXAMINED TO DETERMINE WHAT SENSITIVE FACILITIES WERE WITHIN THE AREAS. THERE WAS NO PHOTOGRAPHY OF ONE AREA WHICH CONTAINED NO LAND MASS. THIS REPORT LOCATES AND DISCUSSES THE RESTRICTED AREAS' FACILITIES, FORBIDDEN ACTIVITIES AND FORBIDDEN ZONES.*



25X1

CIA INFR IS10106J-77 07 SEP 77  SEC CLASS: 24 MSN: 9P ACCN: S0817525X1

SHIPS, KARA CLASS CG WEAPON SYSTEM U/I	UR
WAC NO :	BE/OBJ NO: 
IDHS CODE:	EPF CAT : 75D
	NPIC NO :
	COMIREX NO:

25X1

ANALYSIS OF SATELLITE PHOTOGRAPHY OF THE FOURTH KARA-CLASS GUIDED MISSILE CRUISER AND GROUND PHOTOGRAPHY OF STANDARD CONFIGURATION KARAS INDICATES THERE IS SUFFICIENT DEPTH IN THE UNIDENTIFIED WEAPON MAGAZINE OF THE FOURTH KARA TO ACCOMMODATE A VERTICALLY LAUNCHED WEAPON WITH A LENGTH OF AT LEAST 8 METERS. ANALYSIS OF THE EIGHTH KARA UNDER CONSTRUCTION ON THE BUILDING WAYS AT NIKOLAYEV INDICATES THIS SHIP WILL PROBABLY BE CONFIGURED SIMILAR TO THE FOURTH KARA. THIS SUGGESTS THAT FUTURE KARAS OR A SUCCESSOR CLASS MAY ALSO BE EQUIPPED WITH THE UNIDENTIFIED WEAPON SYSTEM.

CIA INFR IS10105K-77 05 OCT 77  SEC CLASS: 14 MSN: 4P ACCN: S0817525X1

SHIPS, KIANGHU CLASS FF	CH
WAC NO :	BE/OBJ NO: 
IDHS CODE:	EPF CAT : 75D
	NPIC NO :
	COMIREX NO:

25X1

2068
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

SHANGHAI NAVAL BASE/SHPYD KIANGHU CL FF PROD	CH	311647N	1213401E
WAC NO : 0492	BE/OBJ NO:	NPIC NO :	28-S1
IDHS CODE: []	EPF CAT : 75B	COMIREX NO:	[]
SHANGHAI NAVAL BASE/SHPYD KIANGHU CL FF PROD	CH	311647N	1213401E
WAC NO : 0492	BE/OBJ NO:	NPIC NO :	28-S1
IDHS CODE: []	EPF CAT : 75E	COMIREX NO:	[]

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25X25X1

25X1

25X1

25X1

CIA INFR IS10102J-77 28 SEP 77

SEC CLASS: 24

MSN: []

6P

ACCN: S081762

25X1

25X1

MISSILES, ABM-X-3 SITE CONSTRUCTION TIMING

UR

WAC NO :
IDHS CODE:

BE/OBJ NO:
EPF CAT : 40D

NPIC NO :
COMIREX NO:

2069

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SARY SHAGAN MTC COMPLEX F ABM-X-3 SITE UR 462629N 0725108E
WAC NO : 0245 BE/OBJ NO: NPIC NO : - 49-B6
IDHS CODE: EPF CAT : 40D COMIREX NO:

25X1
25X1

THE ABM-X-3 SYSTEM IS OFTEN PUT FORWARD AS A SYSTEM THAT THE SOVIETS COULD FIELD IN AS LITTLE AS SIX MONTHS. HOWEVER, IN THIS STUDY, COMPARISON OF THE CONSTRUCTION OF THE TWO ABM-X-3 LAUNCH SITES AT SARY SHAGAN MISSILE TEST CENTER (SSMTC), COMPLEX F AND THE CONSTRUCTION OF SA-5 COMPLEX SHOWS THAT CONSTRUCTION OF A NEW, SOFT ABM-X-3 LAUNCH COMPLEX WOULD, UNDER NORMAL CIRCUMSTANCES, TAKE ABOUT 24 MONTHS. ADDITIONALLY, IF THE SOVIETS CHOOSE TO BUILD SILO LAUNCHERS SIMILAR TO THOSE NOW BEING CONSTRUCTED AT SSMTC LAUNCH COMPLEXES B AND F, CONSTRUCTION OF A LAUNCH COMPLEX COULD TAKE SUBSTANTIALLY LONGER.

25X1

CIA INFR IS10096J-77 11 OCT 77 SEC CLASS: 13 MSN: 9P ACCN: 50817625X1

MILITARY, 14TH ARTILLERY DIVISION PEICHING MR CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35D COMIREX NO:

THE 14TH ARTILLERY DIVISION IS CENTERED AROUND THE TOWN OF CHIEH-HSIU ON THE TAI-YUAN/FENG-LING-TU RAIL LINE. THE DIVISION CONSISTS OF A 122-MM HOWITZER REGIMENT, A 122-MM GUN REGIMENT, A 130-MM GUN REGIMENT, A 152-MM GUN-HOWITZER REGIMENT, AND A 140-MM MULTIPLE ROCKET LAUNCHER REGIMENT. THE GUN AND GUN-HOWITZER REGIMENTS HAVE ARTILLERY SUBCALIBER RANGES; THE HOWITZER AND MULTIPLE ROCKET LAUNCHER REGIMENTS DO NOT.

CIA INFR IS10131K-77 19 OCT 77 SEC CLASS: 13 MSN: 18P ACCN: 50817625X1

MISSILES, SS-12 FIELD TRAINING EXERCISES UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40B COMIREX NO:

THIS MEMORANDUM WAS PREPARED IN RESPONSE TO A REQUEST FOR A STUDY OF SCALEBOARD SIGHTINGS OUTSIDE KNOWN SCALEBOARD ASSOCIATED INSTALLATIONS. IT DESCRIBES IN DETAIL EACH SIGHTING TO INCLUDE DISTANCE FROM INSTALLATION, DISTANCE FROM THE NEAREST ROAD, TYPE OF ROAD SURFACE, TERRAIN, WEATHER, TYPES OF EQUIPMENT, DESCRIPTION OF TRAINING, AND OTHER PERTINENT INFORMATION.

A REVIEW OF SELECTED SATELLITE PHOTOGRAPHY FROM JANUARY 1970 TO SEPTEMBER 1977 REVEALS 52 SIGHTINGS OF SCALEBOARD (SS-12) EQUIPMENT OUT-OF-GARRISON. IN MOST OF THESE INSTANCES ACTUAL FIELD TRAINING WAS BEING CONDUCTED, INCLUDING LAUNCH PREPARATION, MISSILE ERECTION, SIMULATED FIRING, WARHEAD HANDLING, AND CAMOUFLAGE AND DECEPTION. FIELD TRAINING WAS OBSERVED AS CLOSE AS 400 METERS (M) TO THE GARRISON AND AS FAR AWAY AS 30 KILOMETERS (KM). THE EQUIPMENT IN TRAINING WAS USUALLY LOCATED IN AN AREA OF FAIRLY LEVEL

25X1

2070
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1
25X1

FORESTED TERRAIN IN PROXIMITY TO A ROAD OR TRAIL. HOWEVER, SCALEBOARD TRAINING EXERCISES WERE IDENTIFIED IN MORE RUGGED TERRAIN AND UNDER SOMEWHAT ADVERSE WEATHER CONDITIONS. USUALLY NO MORE THAN 30 PIECES OF EQUIPMENT WERE OBSERVED. IN MOST CASES THE SCALEBOARD TEL, THE SCALEBOARD RESUPPLY VEHICLE, THE URAL 375 LAUNCH CONTROL VEHICLE, AND THE MAZ 535/537 CRANE COULD BE IDENTIFIED.

CIA INFR IS10121J-77 20 OCT 77 [] SEC CLASS: 24 MSN: 12P ACCN: 5081766

MILITARY GUERRILLA/COMMANDO TRNG CAMPS PROB	WAC NO :	BE/OBJ NO :	LY	NPIC NO :
	IDHS CODE :	EPF CAT : 35B		COMIREX NO :
TARABULUS GUERRILLA/COMMANDO TRNG CAMP PROB	WAC NO : 0423	BE/OBJ NO :	LY 325205N	0131120E
	IDHS CODE :	EPF CAT : 35B		NPIC NO :
TARABULUS MILITARY INTELLIGENCE INSTITUTE	WAC NO : 0423	BE/OBJ NO :	LY 325040N	0131220E
	IDHS CODE :	EPF CAT : 35B		NPIC NO :
RAS AL HILAL GUERRILLA/COMMANDO TRNG CAMP	WAC NO : 0424	BE/OBJ NO :	LY 325525N	0221030E
	IDHS CODE :	EPF CAT : 35B		NPIC NO :
MURRAT SIDI BILAL GUERRILLA TRNG CAMP PROB	WAC NO : 0423	BE/OBJ NO :	LY 324925N	0125830E
	IDHS CODE :	EPF CAT : 35B		NPIC NO :
TUKRAH GUERRILLA/COMMANDO TRAINING CAMP PROB	WAC NO : 0424	BE/OBJ NO :	LY 323330N	0203800E
	IDHS CODE :	EPF CAT : 35B		NPIC NO : - 12
				COMIREX NO :

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THE LIBYAN REGIME HAS BEEN A STRONG SUPPORTER OF RADICAL CAUSES AND NUMEROUS COLLATERAL REPORTS HAVE STATED THAT THESE GROUPS HAVE RECEIVED TRAINING IN LIBYA. THIS COLLATERAL INFORMATION WAS CORRELATED WITH SATELLITE PHOTOGRAPHY AND FIVE PROBABLE AND THREE SUSPECT GUERRILLA/COMMANDO TRAINING CAMPS WERE IDENTIFIED.

AN ADDITIONAL 27 REPORTED TRAINING CAMPS COULD NOT BE IDENTIFIED, EITHER BECAUSE OF INSUFFICIENT DETAIL IN THE REPORTS OR BECAUSE THESE CAMPS LACK IDENTIFIABLE PHOTOGRAPHIC SIGNATURES.

CIA INFR IS10124K-77 17 OCT 77 [] SEC CLASS: 13 MSN: 3P ACCN: 5081767

PAOTOU ARMORED VEHICLE PLT 617 PROD INCREASE	WAC NO : 0288	BE/OBJ NO :	CH 404006N	1095423E
	IDHS CODE :	EPF CAT : 35G		NPIC NO : - 13-6
				COMIREX NO :

25X1
25X1

RECENT SATELLITE PHOTOGRAPHY REVEALS THAT THE PAO-TOU ARMORED VEHICLE PLANT 617 HAS INCREASED ITS ARMORED VEHICLE PRODUCTION RATE. DURING THE PERIOD FROM 3 JUNE TO 20 SEPTEMBER 1977, THE PLANT WAS PRODUCING ARMORED VEHICLES AT AN ESTIMATED AVERAGE OF 15 VEHICLES PER WEEK. THIS REPRESENTS A SIGNIFICANT INCREASE OVER THE 1976 PRODUCTION RATE ESTIMATE OF EIGHT ARMORED VEHICLES PER WEEK.

2071
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CIA INFR IS10127K-77 19 OCT 77 [] SEC CLASS: 13 MSN: 4P ACCN: S08176825X1

MILITARY, ARMS PLANTS EXPANSION KN
 WAC NO : BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 356 COMIREX NO:
 PYORHA RI ARMS + AMMUNITION PLT 81 PUG EXPNS KN 404550N 1263250E
 WAC NO : 0290 BE/OBJ NO: NPIC NO : - 151
 IDHS CODE: EPF CAT : 356 COMIREX NO:
 KUSONG TANK MANUFACTURING PLANT EXPANSION KN 400250N 1251240E
 WAC NO : 0290 BE/OBJ NO: NPIC NO : - 180-B
 IDHS CODE: EPF CAT : 356 COMIREX NO:
 KANGGYE ARMS PLANT 93 PUG EXPANSION KN 405956N 1263647E
 WAC NO : 0290 BE/OBJ NO: NPIC NO : - 92-C2
 IDHS CODE: EPF CAT : 356 COMIREX NO:

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

THE NORTH KOREANS ARE CONTINUING TO EXPAND THE OBSERVABLE PORTIONS OF THREE OF THEIR NINE KNOWN ARMS MANUFACTURING PLANTS. THESE ARE THE PYORHA-RI ARTILLERY PLANT [] KUSONG TANK MANUFACTURING PLANT [], AND KANGGYE ARMS PLANT 93 [] THE EXTENT OF THE EXPANSION AT THESE PLANTS BETWEEN SEPTEMBER 1976 AND SEPTEMBER 1977 IS LESS THAN THE YEARLY AVERAGE OF THE COMBINED EXPANSION FOR ALL NINE ARMS FACILITIES FROM 1970 TO 1976; HOWEVER, IT IS STILL SIGNIFICANT. JUDGING BY THIS EXTERNAL CONSTRUCTION, CURRENT ECONOMIC PROBLEMS HAVE NOT STOPPED THE CONTINUING EXPANSION OF PORTIONS OF THE NORTH KOREAN ARMS INDUSTRY.

25X1
25X1

CIA INFR IS10133K-77 20 OCT 77 [] SEC CLASS: 13 MSN: 3P ACCN: S08176825X1

HAMHUNG MACHINERY PLANT YONGSONG SP ARTY PROD KN 394908N 1273558E
 WAC NO : 0380 BE/OBJ NO: NPIC NO : - 22-I
 IDHS CODE: EPF CAT : 356 COMIREX NO:

25X1
25X1
25X1
25X1

IT WAS DETERMINED THAT THE HAMHUNG MACHINERY PLANT YONGSONG [] IS INVOLVED IN THE PRODUCTION OF INDIGENOUSLY DESIGNED SELF-PROPELLED (SP) ARTILLERY. THIS IS THE FIFTH NORTH KOREAN PLANT TO BE ASSOCIATED WITH THE PRODUCTION OF SELF-PROPELLED ARTILLERY. THE OTHER FOUR PLANTS ARE KIYANG TRACTOR AND CONSTRUCTION MACHINERY PLANT, TOKCHON ARTILLERY PLANT, PYORHA-RI ARTILLERY PLANT, AND THE SINHUNG ARMORED PERSONNEL CARRIER PLANT.

CIA INFR IS10138K-77 31 OCT 77 [] SEC CLASS: 13 MSN: 3P ACCN: S0817725X1

TAPASTE RADIO RELAY STATION CU 230212N 0820445W
 WAC NO : 0586 BE/OBJ NO: NPIC NO :
 IDHS CODE: EPF CAT : 25D COMIREX NO:
 MADRUGA RADIO RELAY STATION CU 225510N 0815120W
 WAC NO : 0586 BE/OBJ NO: NPIC NO :

25X1

2072
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
LA HABANA TV TRANSMITTER + RADIO RELAY STA-	WAC NO : 0586	CU 230237N 0822725W	
	IDHS CODE: []	BE/OBJ NO: []	NPIC NO : - 911
SAN ANTONIO DE LOS BANOS RADIO RELAY STATION	WAC NO : 0586	EPF CAT : 25D	COMIREX NO:
	IDHS CODE: []	CU 225130N 0823050W	
CACAHUAL RADIO RELAY STATION	WAC NO : 0586	BE/OBJ NO:	NPIC NO :
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:
SAN JOSE DE LAS LAJAS RADIO RELAY STATION	WAC NO : 0586	CU 225640N 0821040W	
	IDHS CODE: []	BE/OBJ NO:	NPIC NO :
LA HABANA TV TRANSMITTER + RADIO RELAY STA-	WAC NO : 0586	EPF CAT : 25D	COMIREX NO:
	IDHS CODE: []	CU 225840N 0821020W	
	WAC NO : 0586	BE/OBJ NO:	NPIC NO :
	IDHS CODE: []	EPF CAT : 25D	COMIREX NO:
	WAC NO : 0586	CU 230237N 0822725W	
	IDHS CODE: []	BE/OBJ NO: []	NPIC NO : - 911
		EPF CAT : 25B	COMIREX NO:

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

THIS MEMORANDUM PROVIDES INFORMATION ON SIX CUBAN MICROWAVE FACILITIES. THEY ARE LOCATED IN HAVANA, SAN ANTONIO DE LOS BANOS, CACAHUAL, SAN JOSE DE LAS LAJAS, TAPASTE, AND MADRUGA. THIS INFORMATION IS PART OF A CONTINUING OIA ANALYSIS OF THE MICROWAVE FACILITIES IN AND AROUND HAVANA.

CIA INFR IS10140K-77 28 OCT 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S081771 25X1

MILITARY, TRAINING ACT SOV EQUIP INCREASE	MZ
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 35B
	NPIC NO :
	COMIREX NO:

25X1

DURING THE PAST SIX MONTHS A SIGNIFICANT INCREASE IN TRAINING ACTIVITY WITH SOVIET-MADE EQUIPMENT HAS BEEN OBSERVED AT SEVERAL LOCATIONS IN MOZAMBIQUE. BOTH THE EQUIPMENT, WHICH HAS BEEN RECENTLY INTRODUCED, AND THE ASSOCIATED TRAINING APPEARS TO BE FOR CONVENTIONAL TACTICAL FORCES RATHER THAN FOR IRREGULAR FORCES. ALTHOUGH THE EQUIPMENT IS SOVIET-MADE IT CANNOT BE CONFIRMED WHO SUPPLIED THE EQUIPMENT NOR WHO IS CONDUCTING THE TRAINING. HUMAN SOURCE REPORTING HAS INDICATED THAT BOTH SOVIET AND CUBAN MILITARY ADVISERS ARE IN MOZAMBIQUE.

CIA INFR IS10113K-77 05 OCT 77 [] SEC CLASS: 13 MSN: [] 22P ACCN: S081772 25X1

SHANGHAI PORT FACILITIES GRAIN HANDLING FACIL	CH 3116 N 12129 E
WAC NO : 0492	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75I
	NPIC NO :
	COMIREX NO:
LUTA PORT FACILITIES GRAIN HANDLING FACILS	CH 385558N 1213920E
WAC NO : 0381	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75I
	NPIC NO : - 18-C1
	COMIREX NO: []
CHANGIANG PORT FACILITIES GRAIN HDLG FACILS	CH 211126N 1102452E

25X1

25X1

25X1

25X1

2073
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

WAC NO : 0615	BE/OBJ NO: []	NPIC NO : - 1-B	
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	
CHINHUANGTAO PORT FACILITIES	GRAIN HDLG FACLS	CH 395433N 1193616E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 11-A	
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	
CHINGTAO PORT FACILITIES	GRAIN HDLG FACLS	CH 360513N 1201906E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 13-D3	
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	
TANGKU PORT FACILS	HSINCHIANG GRAIN HDLG FACLS	CH 385904N 1174408E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 62	
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	
TANGKU PORT FACILITIES	HAIHO GRAIN HDLG FACLS	CH 385950N 1174018E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 62-D	
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	
YENTAI PORT FACILITIES	GRAIN HANDLING FACILS	CH 373259N 1212322E	
WAC NO : 0381	BE/OBJ NO: []	NPIC NO : - 80-D	
IDHS CODE: []	EPF CAT : 75I	COMIREX NO: []	

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

25X1
25X1

THIS MEMORANDUM PRESENTS THE RESULTS OF A PHOTOGRAPHIC STUDY TO IDENTIFY THOSE CHINESE PORTS WITH GRAIN UNLOADING FACILITIES OR BERTHS BEING USED FOR GRAIN HANDLING. IT ALSO DISCUSSES THE EQUIPMENT AND METHODS USED AT THE PORTS TO HANDLE GRAIN SHIPMENTS. THE STUDY WAS MADE FROM PHOTOGRAPHY OF VARIOUS DATES SINCE 1970, WITH MOST COVERAGE DURING THE YEARS 1973 TO MID-1977.

EIGHT PORTS WHERE GRAIN HANDLING OPERATIONS INVOLVING OCEAN-GOING SHIPS TAKE PLACE WERE IDENTIFIED. THE PORTS ARE SHANGHAI, LU-TA, CHAN-CHIANG, TANG-KU, YEN-TAI, CHIN-HUANG-TAO, CHING-TAO, AND HSIN-KANG. ONLY TWO OF THE PORTS -- SHANGHAI AND LU-TA -- HAVE MODERN GRAIN TERMINALS. THE TERMINAL AT SHANGHAI WAS COMPLETED IN 1975 AND THE TERMINAL AT LU-TA WAS IN A LATE STAGE OF CONSTRUCTION IN JUNE 1977.

CIA INFR IS10128K-77 17 OCT 77 [] SEC CLASS: 14 MSN: 9P ACCN: 50817725X1

MINUSINSK HEAVY EQUIPMENT PLANT U/C	UR 5343 N 09142 E
WAC NO : 0161	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 30C
	NPIC NO : []
	COMIREX NO: []

25X1
25X1

KOLPINO HEAVY EQUIPMENT PLANT IZHORA ZHDANOV	UR 594535N 0302955E
WAC NO : 0153	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 30C
	NPIC NO : - 36-L
	COMIREX NO: []
LENINGRAD ELECTRICAL EQUIPMENT PLANT KIROV 38	UR 595252N 0301940E
WAC NO : 0153	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 30D
	NPIC NO : - 36-N
	COMIREX NO: []
LENINGRAD METALS PLANT 22ND PARTY CONGRESS	UR 595748N 0302320E
WAC NO : 0153	BE/OBJ NO: []
	NPIC NO : - 36-R6

25X1
25X1

25X1
25X1

25X1

25X1

2074
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []	EPF CAT : 30C	COMIREX NO: []
INDUSTRY, POWER PLANT COMPONENT MFG EXPANSION	UR	
WAC NO : []	BE/OBJ NO: []	NPIC NO : []
IDHS CODE: []	EPF CAT : 30E	COMIREX NO: []

25X1

THE SOVIET UNION IS CURRENTLY EXPANDING ITS FACILITIES TO MANUFACTURE EQUIPMENT FOR BOTH NUCLEAR AND CONVENTIONAL POWER GENERATING PLANTS. THIS STUDY EXAMINES THE EXPANSION OR INITIAL CONSTRUCTION TAKING PLACE AT FIVE MAJOR PLANTS IN THIS INDUSTRY. THE FIVE PLANTS ARE THE VOLGODONSK NUCLEAR REACTOR FABRICATION PLANT, THE KOLPINO HEAVY EQUIPMENT PLANT IZHORA ZHDANOV, LENINGRAD ELECTRICAL EQUIPMENT PLANT KIROV 38, LENINGRAD METALS PLANT 22ND PARTY CONGRESS, AND MINUSINSK HEAVY EQUIPMENT PLANT WHICH IS UNDER CONSTRUCTION.*

CIA INFR IS10135K-77 21 OCT 77 [] SEC CLASS: 13 MSN: 2P ACCN: S081774

25X1

SARY SHAGAN MTC COMPLEX D POL TRANS PROB	UR	454840N 0733404E
WAC NO : 0245	BE/OBJ NO: []	NPIC NO : 39
IDHS CODE: []	EPF CAT : 40E	COMIREX NO: []

25X1
25X1

THE PRESENCE OF A SEMI-TRAILER ADJACENT TO BUILDING B-1, LAUNCH COMPLEX D, SARY SHAGAN MISSILE TEST CENTER, USSR, HAS LED TO SPECULATION THAT IT WAS A CONTAINER FOR COMPRESSED OR CRYOGENIC GASES. ANALYSIS IS PROBABLY A POL TRANSPORTER.* [] HOWEVER, REVEALED THAT THE TRAILER

25X1
25X1

CIA INFR IS10114K-77 07 OCT 77 [] SEC CLASS: 13 MSN: 7P ACCN: S081775

25X1

AIRCRAFT, AIR ACTIVITY, SALT RELATED	UR	
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 05	COMIREX NO:

THIS MEMORANDUM SUMMARIZES SALT-RELATED AIR ACTIVITY OBSERVED [] ALL SALT-ASSOCIATED LONG RANGE AVIATION (LRA) AND SOVIET NAVAL AVIATION (SNA) BASES WERE IMAGED DURING THE REPORTING PERIOD WITH THE EXCEPTION OF THE SNA/BACKFIRE BASE AT BYKHOV. THE MOST SIGNIFICANT ACTIVITIES OBSERVED WERE: MISSILE ASSOCIATED ACTIVITY AT A LRA AIRFIELD AND AT A FLIGHT TEST CENTER (FTC); THE CONTINUED DEPLOYMENT OF A BEAR REGIMENT FROM ONE LRA AIRFIELD TO TWO OTHERS; AND AN INCREASE IN BEAR F AT A SNA AIRFIELD.

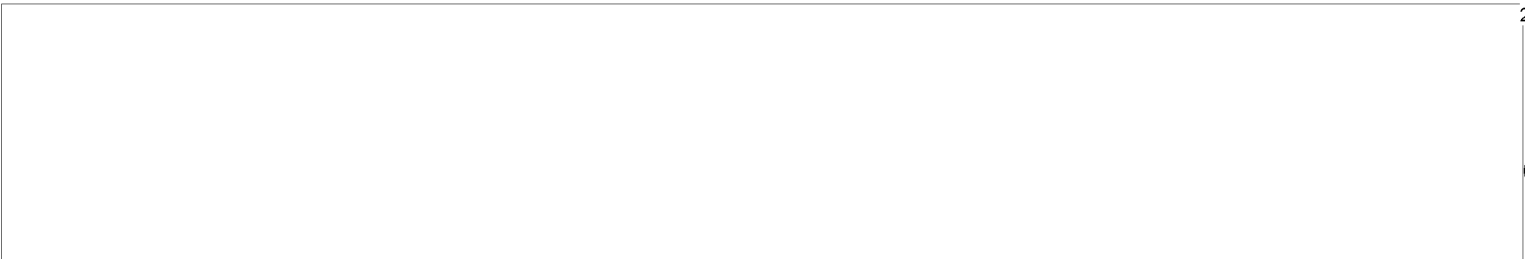
25X1
25X1

2075
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1



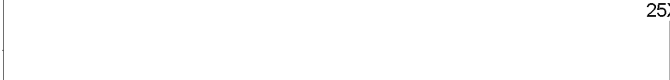
25X1

NPIC	BIIB	BCA09-0005-77	SEP 77	[REDACTED]	SEC CLASS: 25 X MSN:	1P	ACCN: S08178	25X1
		MIELEC AIRFRAME PLANT WSK NO SIGNIFICANT CHNG		PL 501838N 0212740E				
		WAC NO : 0232		BE/OBJ NO: [REDACTED]	NPIC NO : [REDACTED]			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 056	COMIREX NO: [REDACTED]			25X1
NPIC	BIIB	BCA09-0004-77	SEP 77	[REDACTED]	SEC CLASS: 25 MSN:	1P	ACCN: S08178	25X1
		RAMENSKOYE FLIGHT TEST CENTER NO SIG CHANGE		UR 553418N 0380923E				
		WAC NO : 0167		BE/OBJ NO: [REDACTED]	NPIC NO : - 50			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 056	COMIREX NO: [REDACTED]			25X1
DIA	IIM	5B3-55726-77	03 NOV 77	[REDACTED]	SEC CLASS: 13 MSN:	3P	ACCN: S08178	25X1
		RUBTSQVSK AIRFIELD POL STORAGE CAPACITY		UR 513505N 0611201E				
		WAC NO : 0239		BE/OBJ NO: [REDACTED]	NPIC NO : - 4-F			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 051	COMIREX NO: [REDACTED]			25X1
DIA	IIM	5B3-55727-77	03 NOV 77	[REDACTED]	SEC CLASS: 13 MSN:	2P	ACCN: S08178	25X1
		KYUBEYI AIRFIELD		UR 635330N 1224700E				
		WAC NO : 0125		BE/OBJ NO: [REDACTED]	NPIC NO : - 25			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05A	COMIREX NO: [REDACTED]			25X1
DIA	IIM	5B3-55731-77	03 NOV 77	[REDACTED]	SEC CLASS: 13 MSN:	3P	ACCN: S08178	25X1
		KARAVAN AIRFIELD POL STORAGE CAPACITY		UR 412829N 0714349E				
		WAC NO : 0328		BE/OBJ NO: [REDACTED]	NPIC NO : - 115			25X1
		IDHS CODE: [REDACTED]		EPF CAT : 05I	COMIREX NO: [REDACTED]			25X1
DIA	IIM	5B1-57375-77	NOV 77	[REDACTED]	SEC CLASS: 14D MSN:	9P	ACCN: S08178	25X1

2076

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF

25X1
25X1

IZVESTKOVVY RAILROAD CONSTRUCTION ENGR BKS
WAC NO : 0203 BE/OBJ NO: [] NPIC NO : - 207-A
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1
25X1

DIA IIM 5B1-57635-77 NOV 77 [] SEC CLASS: 14D MSN: [] 18P ACCN: S081788

25X1
25X1

KYAKHTA ARMY BARRACKS NORTH AL2
WAC NO : 0201 BE/OBJ NO: [] NPIC NO : - 5-B5
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA IIM 5B1-57657-77 NOV 77 [] SEC CLASS: 14B MSN: [] 5P ACCN: S081790

25X1
25X1

MILITARY, 14TH ARMY INFANTRY DIVISION
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 35 COMIREX NO: []

DIA IIM 5B1-57660-77 NOV 77 [] SEC CLASS: 14D MSN: [] 17P ACCN: S081791

25X1

KHABAROVSK RAILROAD CONSTRUCTION ENGINEER BKS
WAC NO : 0204 BE/OBJ NO: [] NPIC NO : - 7-D5
IDHS CODE: [] EPF CAT : 35A COMIREX NO: []

25X1
25X1

DIA IIM 5B2-57620-77 NOV 77 [] SEC CLASS: 14 MSN: [] 14P ACCN: S081792

25X1

2077
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

RUSE PORT COMPLEX
WAC NO : 0322
IDHS CODE:

BE/OBJ NO:
EPF CAT : 75I

BU 435027N 0255627E
NPIC NO : - 74-B
COMIREX NO:

DIA IIM 5B1-57669-77 NOV 77 SEC CLASS: 14B MSN: 4P

ACCN: S08179

25X1
25X1

KECSKEMET AMMUNITION DUMP KADAFALVA
WAC NO : 0251
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

HU 465308N 0193655E
NPIC NO : - 58-D2
COMIREX NO:

DIA IIM 5B1-57675-77 NOV 77 SEC CLASS: 14B MSN: 6P

ACCN: S08179

25X1
25X1

NOWY DWOR MILITARY STORAGE FACILITY 6
WAC NO : 0169
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

PL 522832N 0204344E
NPIC NO : - 89-B4
COMIREX NO:

DIA IIM 5B1-57682-77 NOV 77 SEC CLASS: 14B MSN: 5P

ACCN: S08179

25X1
25X1

NOWY DWOR MILITARY STORAGE FACILITY 4/507
WAC NO : 0169
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

PL 522603N 0204143E
NPIC NO : - 89-B
COMIREX NO:

DIA IIM 5B1-57720-77 01 NOV 77 SEC CLASS: 14B MSN: 4P

ACCN: S08179

25X1
25X1

LJUBLJANA QUARTERMASTER DEPOT
WAC NO : 0252
IDHS CODE:

BE/OBJ NO:
EPF CAT : 35F

YO 460308N 0143205E
NPIC NO :
COMIREX NO:

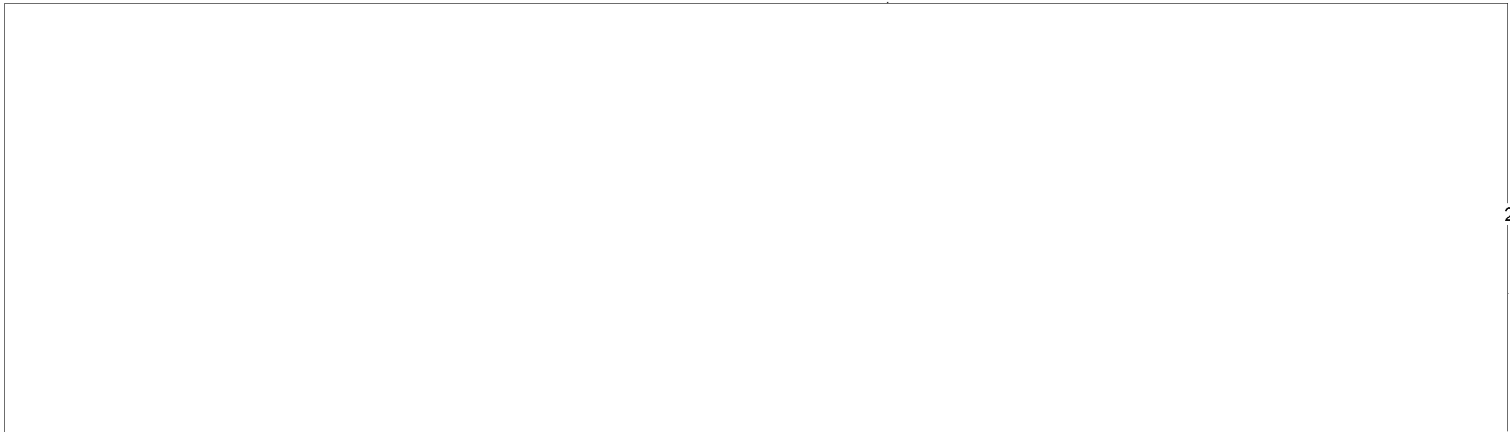
25X1
25X1
25X1

2078
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1



25X1

NPIC MEMO [redacted] 07 NOV 77 [redacted] SEC CLASS: 14B MSN: [redacted] 2P ACCN: S081799 25X1

LYUBIM RADIO RELAY STATION	BE/OBJ NO: [redacted]	UR 582055N 0404225E	
WAC NO : 0154	EPF CAT : 25D	NPIC NO : - 167	25X1
IDHS CODE: [redacted]		COMIREX NO: [redacted]	25X1
DANILOV RADIO RELAY STATION	BE/OBJ NO: [redacted]	UR 581028N 0401100E	
WAC NO : 0154	EPF CAT : 25D	NPIC NO : - 161	25X1
IDHS CODE: [redacted]		COMIREX NO: [redacted]	25X1

THIS MEMO GIVES AN UPDATED DESCRIPTION OF ANTENNA TYPES AND ANTENNA ORIENTATIONS AT THE DANILOV RADIO RELAY STATION AND LYUBIM RADIO RELAY STATION.*

DIA NBRG NDA07-5358-77 09 NOV 77 SEC CLASS: 05G MSN: [redacted] 1P ACCN: S081854

BAKLASHI ARMY BARRACKS AL1 + HQ MRD	BE/OBJ NO: [redacted]	UR 521031N 1035754E	
WAC NO : 0200	EPF CAT : 35A	NPIC NO : - 6	25X1
IDHS CODE: [redacted]		COMIREX NO: [redacted]	25X1

DIA NBRG NDA07-5359-77 09 NOV 77 SEC CLASS: 05G MSN: [redacted] 1P ACCN: S081855

TSUGOL ARMY BARRACKS AL3	UR 510335N 1153317E
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2079
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	WAC NO : 0202	BE/OBJ NO: []	NPIC NO : - 16-A3	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG	NDA07-5360-77	09 NOV 77	SEC CLASS: 05B MSN:	1P ACCN: S081856
	ORDZHONIKIDZE ARMY BARRACKS SOUTH AL6		UR 430023N 0444046E	
	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 18-E	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG	NDA07-5361-77	09 NOV 77	SEC CLASS: 05B MSN:	1P ACCN: S081857
	KOVROV ARMY BARRACKS NE AL2		UR 562301N 0411950E	
	WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 30-I	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG	NDA07-5362-77	09 NOV 77	SEC CLASS: 05B MSN:	1P ACCN: S081858
	DZERZHINSK ARMY BARRACKS AL1		UR 561440N 0432858E	
	WAC NO : 0154	BE/OBJ NO: []	NPIC NO : - 12-D1	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
DIA NBRG	NDA07-5363-77	09 NOV 77	SEC CLASS: 05B MSN:	1P ACCN: S081859
	ORDZHONIKIDZE ARMY BARRACKS EAST AL9		UR 430229N 0444335E	
	WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 18-I	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1
NPIC IIR	IIR077-77	04 NOV 77	SEC CLASS: 14D MSN: 4349-1	2P ACCN: S081862 25X1
	DROVYANAYA SSM COMPLEX REVEIMENT AREA 1 CONST		UR 512750N 1130031E	
	WAC NO : 0201	BE/OBJ NO: []	NPIC NO : - 53-M	25X1
	IDHS CODE: []	EPF CAT : 40	COMIREX NO: []	25X1
NPIC IIR	IIR075-77	04 NOV 77	SEC CLASS: 14 MSN: 4349-1	2P ACCN: S081861 25X1
	LIMA ARMY BARRACKS + SCHOOL SA-3 UNIT IDENT		PE 120954S 0770124W	
	WAC NO : 1135	BE/OBJ NO: []	NPIC NO : - 1-A2	25X1
	IDHS CODE: []	EPF CAT : 35A	COMIREX NO: []	25X1

AN SA-3 MISSILE REGIMENT WAS OBSERVED FOR THE FIRST TIME IN PERU AT LIMA ARMY BARRACKS AND SCHOOL CHORRILLOS. THE EQUIPMENT, LOCATED IN A VEHICLE STORAGE AREA, WAS SET UP IN FOUR FIRING BATTALIONS. EACH BATTALION CONSISTED OF THREE SA-3, FOUR-RAIL LAUNCHERS; A LOW BLOW RADAR WITH ASSOCIATED SUPPORT EQUIPMENT; AND A FLAT FACE RADAR WITH ITS ASSOCIATED TRAILER. IN ADDITION, 152

25X1

2080
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
25X1

SA-3 MISSILE CANISTERS, 42 SA-3 MISSILE TRANSPORTERS (18 CANVAS COVERED), AND 13 SA-3 CANISTER TRANSPORTERS WERE OBSERVED.

NPIC IIR IIR076-77 04 NOV 77 [] SEC CLASS: 14D MSN [] 2P ACCN: S081862 25X1

SHANGHAI SHIPYARD CHUNGHUA LST CLASS NEW U/C CH 311703N 1213334E
WAC NO : 0492 BE/OBJ NO: [] NPIC NO : - 28-52
IDHS CODE: [] EPF CAT : 75E COMIREX NO: []
SHIPS, LST CLASS NEW CH
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75D COMIREX NO:

25X1
25X1

CHINA'S FIRST INDIGENOUS TANK LANDING SHIP (LST) WAS NEWLY IDENTIFIED IN A LATE STAGE OF CONSTRUCTION AT THE CHUNG-HUA SHIPYARD IN SHANG-HAI []
[] IS SIMILAR IN SIZE AND CONFIGURATION TO THE SOVIET ALLIGATOR-CLASS LST. THE SUPERSTRUCTURE HAS AT LEAST FIVE GUN POSITIONS AND IS SITUATED JUST AFT OF MIDSHIPS; A SIXTH GUN POSITION IS FORWARD ON THE RAISED FORECASTLE. [] VEHICLE ACCESS RAMPS LEAD DOWN TO THE SECOND LEVEL (TANK DECK). THE TANK DECK IS DRIVE THROUGH WITH EXIT DOORS ON THE BOW AND STERN.

25X1
25X1

25X1

25X1

2081
TOP SECRET CHESS RUFF

25X1

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TOP SECRET CHESS RUFF



25X1



25X1

NPIC IIR IIR079-77 07 NOV 77 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 2P ACCN: S0818625X1

NANCHANG AIRFRAME + MISSILE PLT 320 NAN B ACT	CH 283752N 1155526E	
WAC NO : 0493	BE/OBJ NO: [REDACTED]	NPIC NO : - 25-D
IDHS CODE: [REDACTED]	EPF CAT : 05G	COMIREX NO: [REDACTED]
NANCHANG AIRFRAME + MISSILE PLT 320 NAN B ACT	CH 283752N 1155526E	
WAC NO : 0493	BE/OBJ NO: [REDACTED]	NPIC NO : - 25-D
IDHS CODE: [REDACTED]	EPF CAT : 40E	COMIREX NO: [REDACTED]

25X1

25X1

25X1

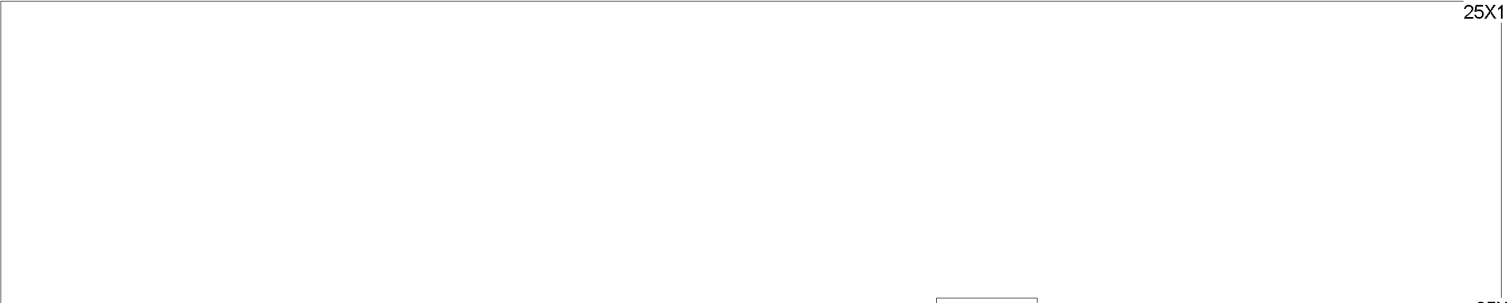
25X1

THREE NAN-B AIRCRAFT WERE OBSERVED AT NAN-CHANG AIRFRAME AND MISSILE PLANT 320, CHINA, [REDACTED]

THE NAN-B IS AN INDIGENOUSLY DESIGNED, SMALL, SINGLE-ENGINE, SWEEP-WING, JET AIRCRAFT. THE ROLE OF THIS AIRCRAFT IS NOT CERTAIN, BUT IT COULD PROBABLY BE USED EITHER AS A GROUND SUPPORT FIGHTER OR AS A JET TRAINER. THIS WAS THE FIRST SIGHTING OF MORE THAN ONE NAN-B AIRCRAFT, WHICH INCREASES THE PROBABILITY THAT THE NAN-B MAY ENTER INTO SERIES PRODUCTION IN THE FUTURE.

25X1

25X1



25X1

NPIC IIR IIR081-77 07 NOV 77 [REDACTED] SEC CLASS: 14D MSN: [REDACTED] 4P ACCN: S0818625X1

HSIAOPINGTAO NAVAL SUPT FAC SLBM POP-UP STAND	CH 385240N 1212930E	
WAC NO : 0381	BE/OBJ NO: [REDACTED]	NPIC NO : - 18-T2
IDHS CODE: [REDACTED]	EPF CAT : 75B	COMIREX NO: [REDACTED]
HSIAOPINGTAO NAVAL SUPT FAC SLBM POP-UP STAND	CH 385240N 1212930E	

25X1

25X1

2084
TOP SECRET CHESS RUFF



25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

WAC NO : 0381

IDHS CODE: [Redacted]

BE/OBJ NO: [Redacted]

EPF CAT : 406

NPIC NO : - 18-T2

COMIREX NO: [Redacted]

25X1
25X1

AN SLBM POP-UP TEST STAND WAS IDENTIFIED AT HSIAO-PING-TAO PROBABLE NAVAL SUPPORT FACILITY, CHINA, ON [Redacted] THE FACILITY IS CONNECTED BY AN ALL-WEATHER ROAD TO HSIAO-PING-TAO SUBMARINE BASE 3.5 NAUTICAL MILES TO THE SOUTH. THE STAND IS VERY SIMILAR IN APPEARANCE TO AND THE SAME HEIGHT AS THE TEST STAND AT CHIN-HSI SSM R+D TEST COMPLEX. THE STAND IS, HOWEVER, LONGER AND WIDER THAN THE ONE AT CHIN-HSI. [Redacted]

25X1

25X1
25X1

ALTHOUGH THE PRECISE ROLE OF THE SUPPORT FACILITY IN THE PEOPLE'S REPUBLIC OF CHINA SLBM PROGRAM REMAINS UNDETERMINED, ONE FUNCTION WILL PROBABLY BE TO SUPPORT FUTURE SLBM AT-SEA TESTS.

[Large Redacted Area]

25X1

2085

TOP SECRET CHESS RUFF

[Redacted]

25X1

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[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

[Large Redacted Area]

25X1

NPIC IIR IIR083-77 08 NOV 77

SEC CLASS: 14D MSN:

2P

ACCN: S081870

25X1

TAGANROG AIRFRAME PLT DIMITROV 86 BEAR F NEW UR 471154N 0385221E
WAC NO : 0249 BE/OBJ NO: NPIC NO : - 38-D

25X1

2087
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: 61160	EPF CAT : 05G	COMIREX NO: []
AIRCRAFT: BEAR F TU-95 VARIANT		UR
WAC NO :	BE/OBJ NO: []	NPIC NO :
IDHS CODE:	EPF CAT : 05D	COMIREX NO:

25X1

25X1

A DETAILED ANALYSIS OF A NEW VARIANT OF THE BEAR F AIRCRAFT AT TAGANROG AIRFRAME PLANT DIMITROV 86, USSR, HAS BEEN COMPLETED.

NPIC MEMO [] 10 NOV 77 [] SEC CLASS: 14D MSN: [] 1P ACCN: S0818725X1

BUGUMUYUZ MOUNTAIN RADIO RELAY LINE SEARCH	UR 4303 N 07537 E	
WAC NO : 0329	BE/OBJ NO:	NPIC NO :
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:

25X1

NPIC MEMO [] 10 NOV 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S0818725X1

NORILSK RADIO RELAY/TV/FM BROADCASTING CENTER	UR 692045N 0881015E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 2-B3
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:

25X1

25X1

NORILSK RADIO RELAY/TV/FM BROADCASTING CENTER	UR 692045N 0881015E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 2-B3
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:

25X1

25X1

NORILSK RADIO RELAY STATION WEST	UR 691805N 0874750E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 2-A5
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:

25X1

25X1

VOLOGOCHAN RADIO RELAY + TROPOSCATTER STATION	UR 692234N 0870634E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 1-E
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:

25X1

25X1

DUDINKA RADIO RELAY/TV RELAY/FM BDCSTG STA	UR 692420N 0861030E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 1-C2
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:

25X1

25X1

DUDINKA RADIO RELAY/TV RELAY/FM BDCSTG STA	UR 692420N 0861030E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 1-C2
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:

25X1

25X1

MESSOYAKHA GAS FIELD RADIO RELAY STATION	UR 690735N 0823005E	
WAC NO : 0048	BE/OBJ NO: []	NPIC NO : - 14
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:

25X1

225X1

A REVIEW OF CURRENT KEYHOLE PHOTOGRAPHY WAS DONE TO DETERMINE THE ANTENNA TYPES, AZIMUTHS, AND STATUS OF THE RADIO-RELAY STATIONS IN THE NORILSK AREA.*

NPIC MEMO [] 11 NOV 77 [] SEC CLASS: 14 MSN: [] 4P ACCN: S0818725X1

2088
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

CAPE TOWN RADIO RELAY STATION			SF 335542S 0182501E
WAC NO : 1422	BE/OBJ NO: []	NPIC NO : - 5-B1	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
CAPE TOWN RADIO RELAY STATION NE			SF 335000S 0183627E
WAC NO : 1422	BE/OBJ NO: []	NPIC NO : 5-C	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	
CAPE TOWN RADIO COMMO RCVR INTERNATIONAL UK			SF 335235S 0183020E
WAC NO : 1422	BE/OBJ NO: []	NPIC NO :	
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	

25X1

25X1

25X1

25X1

25X1

25X1

25X1

A 10-NAUTICAL-MILE-RADIUS SEARCH OF CAPE TOWN TO IDENTIFY MICROWAVE RADIO-RELAY STATIONS AND TO PROVIDE DETAILED MENSURAL DATA PERTAINING TO THEM. THREE MICROWAVE RADIO-RELAY STATIONS WERE IDENTIFIED IN THE SEARCH AREA: CAPE TOWN RADIO-RELAY STATION, CAPE TOWN RADIO-RELAY STATION NORTHEAST, AND CAPE TOWN INTERNATIONAL RADIO COMMUNICATIONS RECEIVER UNITED KINGDOM.*

CIA INFR IS10144K-77 01 NOV 77 [] SEC CLASS: 13 MSN: 7P ACCN: S081874

25X1

INDUSTRY, COAL MINING DEV SOUTHERN YAKUTSK			UR
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 30A	COMIREX NO:	
CHULMAN COAL MINING DEVELOPMENT			UR 5652 N 12452 E
WAC NO : 0129	BE/OBJ NO:	NPIC NO :	
IDHS CODE: []	EPF CAT : 30A	COMIREX NO:	

25X1

PHOTOGRAPHIC ANALYSIS OF THE CHULMAN AREA, APPROXIMATELY 600 KILOMETERS SOUTH-SOUTHWEST OF YAKUTSK IN THE SOUTHERN YAKUTSK COAL BASIN, HAS REVEALED CONSIDERABLE ACTIVITY ASSOCIATED WITH COAL MINING. ALSO OBSERVED WERE THE FOURFOLD EXPANSION OF A VILLAGE IN THE COAL MINING AREA AND THE CONSTRUCTION OF ADDITIONAL TRANSPORTATION FACILITIES.

25X1

CIA INFR IS10151K-77 08 NOV 77 [] SEC CLASS: 13 MSN: [] 9P ACCN: S081876

25X1

25X1

2089
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SHCHELKOVO COSMONAUT TRAINING FACILITY CONST UR 555233N 0380654E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 169
IDHS CODE: EPF CAT : 40H COMIREX NO:

25X1
25X1

THE PRIMARY TRAINING FACILITY FOR SOVIET COSMONAUTS, FREQUENTLY REFERRED TO AS STAR CITY, IS LOCATED 34 KILOMETERS NORTHEAST OF THE KREMLIN NEAR SHCHELKOVO AIRFIELD. DURING A PERIOD OF EXPANSION BEGINNING IN THE EARLY 1970S AND CONTINUING THROUGH 1974 SIX MAJOR BUILDINGS AND SOME APARTMENT BUILDINGS WERE ADDED TO THIS FACILITY. THE MOST SIGNIFICANT OF THE SIX MAJOR BUILDINGS HAS A CIRCULAR CONFIGURATION AND WAS APPARENTLY DESIGNED TO HOUSE A CENTRIFUGE THAT WAS PURCHASED FROM SWEDEN. MORE RECENT EXPANSION OF THIS TRAINING FACILITY DURING THE 1975-1977 TIME PERIOD, HAS RESULTED IN THE INITIATION OF CONSTRUCTION OF FIVE ADDITIONAL BUILDINGS -- INCLUDING A SECOND CIRCULAR BUILDING. THE PHYSICAL CHARACTERISTICS OF THIS SECOND CIRCULAR BUILDING SUGGEST THAT IT IS DESIGNED FOR SOME PURPOSE OTHER THAN A CENTRIFUGE. A LIKELY POSSIBILITY IS THAT IT WILL BE A NEUTRAL BUOYANCY TEST FACILITY SIMILAR TO THE ONE AT THE MARSHALL SPACE FLIGHT CENTER IN HUNTSVILLE, ALABAMA.

CIA INFR IS10152K-77 08 NOV 77 SEC CLASS: 14 MSN: 8P ACCN: S0818725X1

MOSKVA MISSILE PRODUCTION PLANT FILI 23 UR 554524N 0372926E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 46-I
IDHS CODE: EPF CAT : 40E COMIREX NO:

25X1
25X1

ANALYSIS OF THE MOSKVA MISSILE PRODUCTION PLANT FILI 23 REVEALS THAT SL-12/13 SPACE LAUNCH VEHICLES (SLVS) AND SS-11/19 ICBMS ARE PRODUCED AT THE PLANT AND THAT AN UNIDENTIFIED VEHICLE MAY ALSO BE IN PRODUCTION. ENVIRONMENTAL PROTECTION/SHIPPING CONTAINERS, SIMILAR IN CONFIGURATION TO THE SOYUZ COMMAND MODULE SHIPPING CONTAINER, HAVE ALSO BEEN OBSERVED AT PLANT 23.

CIA INFR IS10142K-77 09 NOV 77 SEC CLASS: 13 MSN: 7P ACCN: S08187825X1

SEVERODVINSK SHIPYARD 402 D CLASS SSBN PROD UR 643438N 0394832E
WAC NO : 0092 BE/OBJ NO: NPIC NO : - 7-A
IDHS CODE: EPF CAT : 75E COMIREX NO:

25X1
25X1

SOVIET DELTA-CLASS NUCLEAR POWERED BALLISTIC MISSILE SUBMARINE (SSBN) PRODUCTION HAS SLOWED CONSIDERABLY AT THE SEVERODVINSK SHIPYARD. DURING PEAK PRODUCTION IN THE EARLY-TO-MID 1970S, EIGHT CONSTRUCTION POSITIONS ON FOUR BUILDING WAYS WERE UTILIZED FOR SUBMARINE ASSEMBLY IN THE OLD MAIN CONSTRUCTION HALL. IT IS BELIEVED THAT ONLY FOUR OF THESE POSITIONS ARE PRESENTLY BEING USED FOR SUBMARINE CONSTRUCTION AND THAT THEY ARE ON TWO OF THE FOUR BUILDING WAYS. THERE ALSO IS EVIDENCE THAT TRANSPORTER DOCKS ARE BEING CONSTRUCTED ON SOME OF THE OTHER FOUR VACATED CONSTRUCTION POSITIONS.

DIA NBRG NDA06-5094-77 08 NOV 77 SEC CLASS: 05G MSN: 1P ACCN: S081879

KOMSOMOLSK SHIPYARD AMUR 199 UR 503232N 1370248E
WAC NO : 0204 BE/OBJ NO: NPIC NO : - 13-E

25X1

2090
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: []

EPF CAT : 75E

COMIREX NO: []

25X1

25X1

NPIC IIR

IIR089-77 11 NOV 77

SEC CLASS: 14B MSN: []

3P

ACCN: S081885

25X1

OSTROV/GOROKHOVKA AIRFIELD CONSTRUCTION ACT

UR 571748N 0282555E

WAC NO : 0153

BE/OBJ NO: []

NPIC NO : []

IDHS CODE: []

EPF CAT : 05A

COMIREX NO: []

25X1

25X1

WERE BEING MODIFIED AT OSTROV/GOROKHOVKA AIRFIELD, USSR. THE RUNWAY WAS BEING EXTENDED AND NINE REVETTED HARDSTANDS

NPIC IIR

IIR085-77 09 NOV 77

SEC CLASS: 14B MSN: []

2P

ACCN: S081886

25X1

25X1

NIKOLAYEV SHIPYARD NORTHERN 61 KOMMUNA 445

UR 465840N 0320019E

WAC NO : 0250

BE/OBJ NO: []

NPIC NO : - 46-C

25X1

25X1

2091
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF ZARF UMBRA/NOFORN

TCS-9749/77

25X1

IDHS CODE: []	EPF CAT : 75E	COMIREX NO: []
SHIPS, 445D NAVAL AUX TENDER/REPAIR SHIP PROB	UR	
WAC NO : []	BE/OBJ NO: []	NPIC NO : []
IDHS CODE: []	EPF CAT : 75D	COMIREX NO: []

25X1

[] THE 445D AT NIKOLAYEV SHIPYARD 445 WAS SEEN TO HAVE THE CONSTRUCTION CHARACTERISTICS OF A NAVAL AUXILLARY THAT WILL PROBABLY SERVE AS A REPAIR SHIP OR A TENDER.

25X1

NPIC SR SR082-77 NOV 77 [] SEC CLASS: 25 MSN: 6P ACCN: S08188 25X1

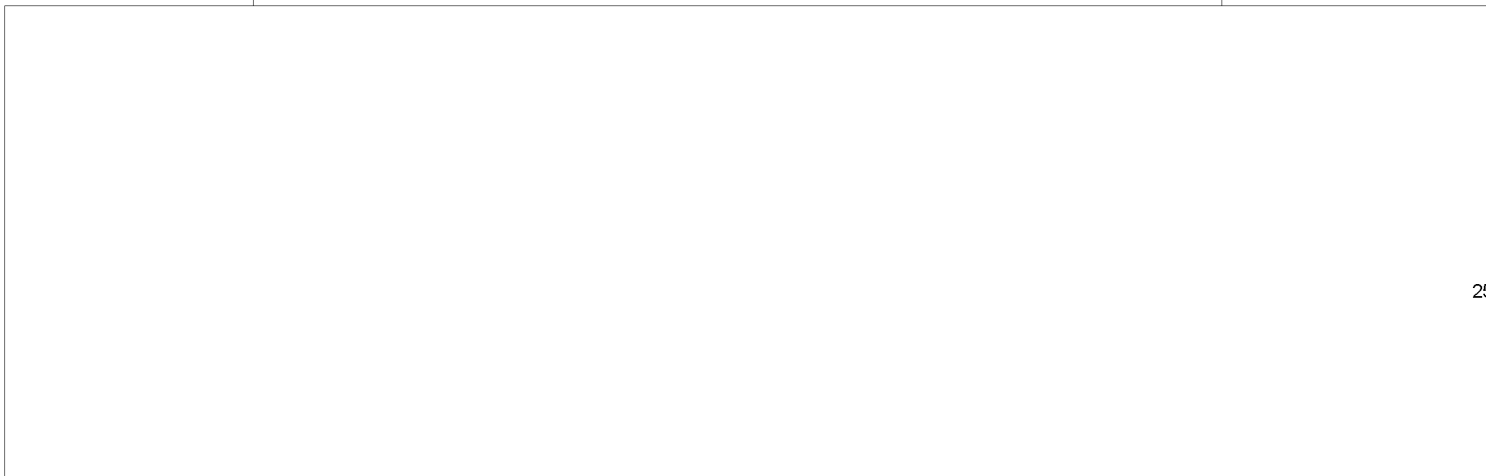
MISSILES, FROG-7 TAC ARTY RKT FORCES SUMMARY	SY
WAC NO : []	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40B
AL QUTAYFAH TAC SSM STGE + TRNG FACIL FROG-7	SY 334215N 0363200E
WAC NO : 0426	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40F
	NPIC NO : - 127-B1
	COMIREX NO: []

25X1

25X1

THIS REPORT SUMMARIZES THE ORGANIZATION AND DEPLOYMENT OF THE FROG-7 TACTICAL ARTILLERY ROCKET FORCES IN SYRIA.

25X1



25X1

25X1

2092
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NPIC IIR IIR087-77 03 SEP 77 SEC CLASS: 05B MSN: 2P ACCN: S081890

NIKOLAYEV/GALITSYNOVO PORT FACILITIES NEW U/C UR 464549N 0315712E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 46-E
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1
25X1

A MAJOR NEW BLACK SEA PORT FACILITY WAS OBSERVED UNDER CONSTRUCTION 2 NAUTICAL MILES (NM) SOUTH OF GALITSYNOVO ON THE EAST BANK OF BUGSKIY LIMAN (ESTUARY) AND 4 NM SOUTH OF NIKOLAYEV PORT FACILITIES SOUTH, THE PRINCIPAL MILITARY EXPORTING FACILITY IN THE SOVIET UNION. REVIEW OF PREVIOUS IMAGERY REVEALED INITIAL GROUND SCARRING FOR THE NEW FACILITY BEGAN DURING SEPTEMBER 1976.

NPIC IIR IIR086-77 10 NOV 77 SEC CLASS: 14A MSN: 3P ACCN: S081891

BOMBAY PORT FACILITIES SA-6 EQUIPMENT IDENT IN 185823N 0725105E
WAC NO : 0673 BE/OBJ NO: NPIC NO : - 3-E1
IDHS CODE: EPF CAT : 75I COMIREX NO:
BOMBAY PORT FACILITIES SA-6 EQUIPMENT IDENT IN 185823N 0725105E
WAC NO : 0673 BE/OBJ NO: NPIC NO : - 3-E1
IDHS CODE: EPF CAT : 40C COMIREX NO:

25X1
25X1
25X1
25X1
25X1

SA-6 EQUIPMENT WAS IDENTIFIED FOR THE FIRST TIME IN INDIA AT BOMBAY PORT FACILITIES

NPIC MEMO 16 NOV 77 SEC CLASS: 14D MSN: 2P ACCN: S081892

KLYUCHI RADIO RELAY STATION UR 561830N 1605100E
WAC NO : 0132 BE/OBJ NO: NPIC NO : - 6-B1
IDHS CODE: EPF CAT : 25D COMIREX NO:
MILKOVO RADIO RELAY STATION SEARCH UR 5443 N 15837 E
WAC NO : 0194 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1
25X1
25X1
25X1

NPIC MEMO 16 NOV 77 SEC CLASS: 14B MSN: 2P ACCN: S081893

KRASNOGORSK OPTICAL INSTRUMENTATION PLANT 393 UR 554940N 0372014E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 68-A
IDHS CODE: EPF CAT : 30D COMIREX NO:

25X1
25X1

2093
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

ALL PERTINENT KEYHOLE IMAGERY FROM SEPTEMBER 1967 TO AUGUST 1977 WAS REVIEWED TO IDENTIFY CONSTRUCTION ACTIVITY AT OR NEAR THE KRASNOGORSK OPTICAL INSTRUMENTATION PLANT 393.**

NPIC MEMO [] 16 NOV 77 [] SEC CLASS: 14B MSN: [] 1P ACCN: S08189[] 25X1

BARDA RADIO RELAY STATION SEARCH UR 401630N 0473225E
WAC NO : 0325 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

NPIC MEMO [] 14 NOV 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S08189[] 25X1

ELECTRONICS, SOVIET TROPOSCATTER STATIONS PL
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25D COMIREX NO: []

25X1

DIA IIM 5B3-55724-77 09 NOV 77 [] SEC CLASS: 13 MSN: [] 6P ACCN: S08189[] 25X1

AIRCRAFT, BEAR TU-95 LONG RANGE AVIATION DPL UR
WAC NO : [] BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 05 COMIREX NO: []
MOZDOK AIRFIELD BEAR TU-95 UR 434715N 0443600E
WAC NO : 0325 BE/OBJ NO: [] NPIC NO : - 40
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
UZIN/CHEPELEVKA AIRFIELD BEAR TU-95 UR 494724N 0302626E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 8
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
DOLON AIRFIELD BEAR TU-95 UR 503214N 0791138E
WAC NO : 0239 BE/OBJ NO: [] NPIC NO : - 3
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []
BELAYA TSERKOV AIRFIELD BEAR TU-95 UR 494749N 0300135E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : - 2-A
IDHS CODE: [] EPF CAT : 05A COMIREX NO: []

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

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25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

DIA IIM 5B1-57734-77 11 NOV 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S08189[] 25X1

LJUBLJANA ORDNANCE REPAIR + STORAGE DEPOT 512 YO 460354N 0143012E
WAC NO : 0252 BE/OBJ NO: [] NPIC NO : []

25X1

2094
TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

25X1
25X1

	IDHS CODE: []	EPF CAT : 35F	COMIREX NO:				25X1
DIA IIM	5B1-57744-77	11 NOV 77	[]	SEC CLASS: 14B	MSN: []	4P	ACCN: S081899 25X1
	SLAVONSKA POZEGA AMMUNITION DEPOT			YO	452130N 0173946E		
	WAC NO : 0252	BE/OBJ NO: []		NPIC NO : -	16-A		25X1
	IDHS CODE: []	EPF CAT : 35F		COMIREX NO:			25X1
DIA IIM	5B1-57746-77	08 NOV 77	[]	SEC CLASS: 14D	MSN: []	2P	ACCN: S081900 25X1
	TOKI MILITARY BARRACKS U/I RAZED			UR	490630N 1401930E		
	WAC NO : 0204	BE/OBJ NO: []		NPIC NO : -	29-G3		25X1
	IDHS CODE: []	EPF CAT : 35A		COMIREX NO:			25X1
DIA IIM	5B1-57747-77	11 NOV 77	[]	SEC CLASS: 14B	MSN: []	5P	ACCN: S081901 25X1
	MODLIN ENGINEER BARRACKS + STORAGE FACIL SW 2			PL	522540N 0204033E		
	WAC NO : 0169	BE/OBJ NO: []		NPIC NO :			25X1
	IDHS CODE: []	EPF CAT : 35A		COMIREX NO:			25X1
	MODLIN ENGINEER BARRACKS + STORAGE FACIL SW 2			PL	522540N 0204033E		
	WAC NO : 0169	BE/OBJ NO: []		NPIC NO :			25X1
	IDHS CODE: []	EPF CAT : 35F		COMIREX NO:			25X1
DIA IIM	5B1-57749-77	11 NOV 77	[]	SEC CLASS: 14B	MSN: []	2P	ACCN: S081902 25X1
	SLAVONSKA POZEGA MILITARY STORAGE DEPOT 503			YO	452144N 0174106E		
	WAC NO : 0252	BE/OBJ NO: []		NPIC NO :			25X1
	IDHS CODE: []	EPF CAT : 35F		COMIREX NO:			25X1
DIA IIM	5B1-57756-77	11 NOV 77	[]	SEC CLASS: 14B	MSN: []	2P	ACCN: S081903 25X1
	LUBLIN HEADQUARTERS MECHANIZED DIVISION 7			PL	511450N 0223300E		
	WAC NO : 0232	BE/OBJ NO: []		NPIC NO : -	92-E6		25X1
	IDHS CODE: []	EPF CAT : 35A		COMIREX NO:			25X1
DIA IIM	5B3-57759-77	10 NOV 77	[]	SEC CLASS: 13	MSN: []	2P	ACCN: S081904 25X1
	ILIYSK AIRFIELD NORTH			UR	435940N 0770818E		
	WAC NO : 0329	BE/OBJ NO: []		NPIC NO : -	12-D		25X1
	IDHS CODE: []	EPF CAT : 05A		COMIREX NO:			25X1
DIA IIM	5B3-57760-77	10 NOV 77	[]	SEC CLASS: 13	MSN: []	2P	ACCN: S081905 25X1

2095
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

	SARY ASSIYA AIRFIELD		UR	382410N 0675644E		
	WAC NO : 0336	BE/OBJ NO: []		NPIC NO :		25X1
	IDHS CODE: []	EPF CAT : 05A		COMIREX NO:		25X1
DIA	IIM	5B3-57761-77	10 NOV 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: S08190625X1
	GALENKI AIRFIELD NE POL STORAGE CAPACITY		UR	440543N 1314845E		
	WAC NO : 0282	BE/OBJ NO: []		NPIC NO : - 9-A		25X1
	IDHS CODE: []	EPF CAT : 05I		COMIREX NO: []		25X1
DIA	IIM	5B3-57763-77	11 NOV 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: S08190725X1
	OKHA AIRFIELD POL STORAGE CAPACITY		UR	533614N 1425805E		
	WAC NO : 0196	BE/OBJ NO: []		NPIC NO : - 9		25X1
	IDHS CODE: []	EPF CAT : 05I		COMIREX NO: []		25X15X1
DIA	IIM	5B3-57777-77	17 NOV 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: S08190825X1
	TEPLY KLYUCH AIRFIELD POL STORAGE CAPACITY		UR	624712N 1365120E		
	WAC NO : 0124	BE/OBJ NO: []		NPIC NO : - 11		25X1
	IDHS CODE: []	EPF CAT : 05I		COMIREX NO:		25X1
DIA	IIM	5B3-57778-77	15 NOV 77	[]	SEC CLASS: 13 MSN: []	2P ACCN: S08190925X1
	SLIVEN AIRFIELD		BU	423851N 0262132E		
	WAC NO : 0322	BE/OBJ NO: []		NPIC NO : - 83		25X1
	IDHS CODE: []	EPF CAT : 05A		COMIREX NO: []		25X1
DIA	IIM	5B3-57780-77	17 NOV 77	[]	SEC CLASS: 13 MSN: []	2P ACCN: S08191025X1
	SEMIYARKA AIRFIELD		UR	504410N 0783220E		
	WAC NO : 0238	BE/OBJ NO: []		NPIC NO : - 13		25X1
	IDHS CODE: []	EPF CAT : 05A		COMIREX NO: []		25X1
DIA	IIM	5B3-57783-77	17 NOV 77	[]	SEC CLASS: 13 MSN: []	1P ACCN: S08191125X1
	OLOVYANNAYA/EGVEKINOT GUBA AIRFIELD		UR	661450N 1790330W		
	WAC NO : 0075	BE/OBJ NO: []		NPIC NO : - 22		25X1
	IDHS CODE: []	EPF CAT : 05A		COMIREX NO: []		25X1
DIA	IIM	5B3-57785-77	17 NOV 77	[]	SEC CLASS: 13 MSN: []	3P ACCN: S08191225X1
	SOVETSKAYA GAVAN/MAYGATKA AFLD POL STGE CPCTY		UR	485516N 1400156E		

2096

TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

WAC NO : 0204
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 05I

NPIC NO : - 29-V
COMIREX NO: [REDACTED]

25X1
25X1
25X1

DIA IIM 5B3-57786-77 17 NOV 77 [REDACTED]

SEC CLASS: 13 MSN: [REDACTED]

3P

ACCN: S081913

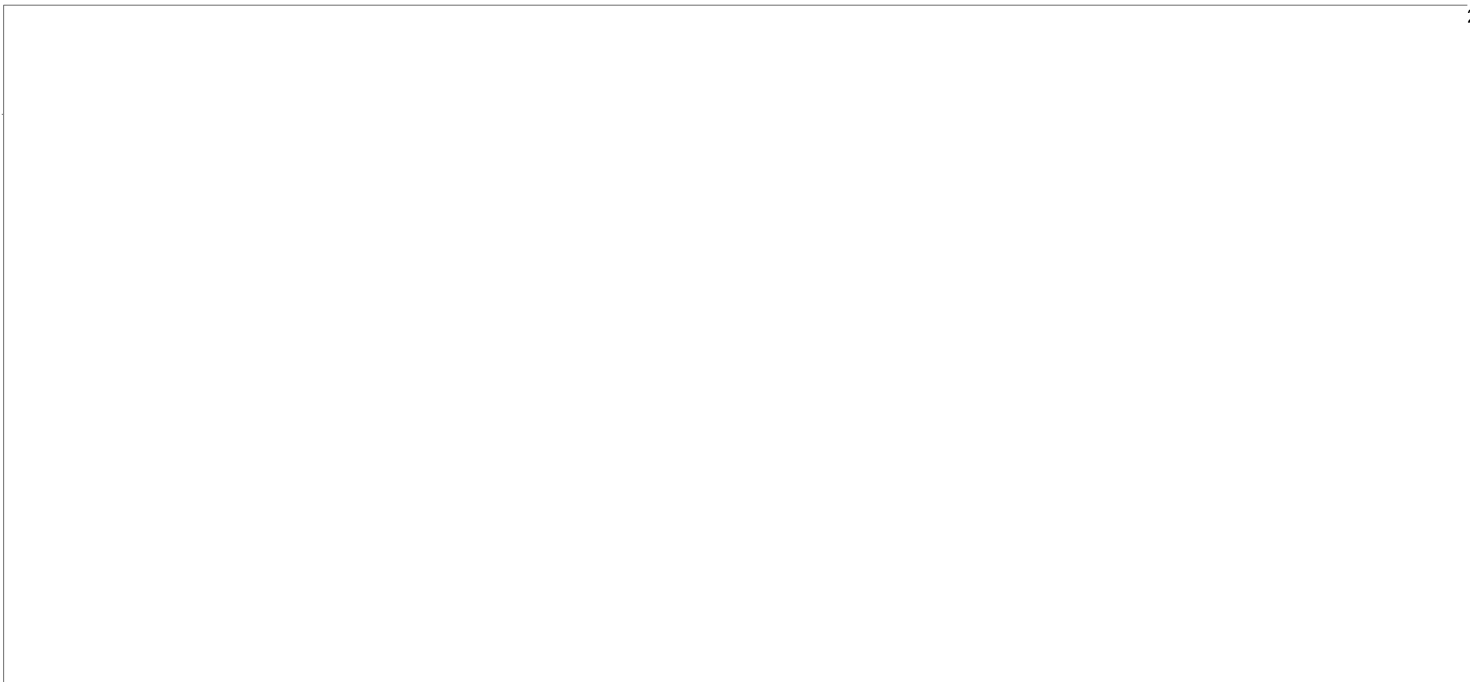
OSSORA AIRFIELD POL STORAGE CAPACITY

WAC NO : 0132
IDHS CODE: [REDACTED]

BE/OBJ NO: [REDACTED]
EPF CAT : 05I

UR 591420N 1630312E
NPIC NO : - 21-A
COMIREX NO: [REDACTED]

25X1
25X1
25X1



25X1

2097
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1

25X1

NPIC IIR IIR092-77 15 NOV 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 2P ACCN: S08198425X1

KERCH NAVAL BASE + SHIPYARD	532 340D CL AK	UR	451558N 0362504E	25X1
WAC NO :	0249	BE/OBJ NO:	[REDACTED]	25X1
IDHS CODE:	[REDACTED]	EPF CAT :	75E	25X1
KERCH NAVAL BASE + SHIPYARD	532 340D CL AK	UR	451558N 0362504E	25X1
WAC NO :	0249	BE/OBJ NO:	[REDACTED]	25X1
IDHS CODE:	[REDACTED]	EPF CAT :	75B	25X1
SHIPS, 340D CLASS AK 25MM AA	GUNS ARMED	UR	[REDACTED]	
WAC NO :	[REDACTED]	NPIC NO :	[REDACTED]	
IDHS CODE:	[REDACTED]	EPF CAT :	75D	
		COMIREX NO:	[REDACTED]	

[REDACTED] THE NEWLY-CONSTRUCTED 340D ARMED, PROBABLE REFRIGERATOR CARGO SHIP (AK), WAS MED-MOORED (STERN IN) AT THE QUAY AT KERCH NAVAL BASE AND SHIPYARD KAMYSK BURUN NO 532 IN THE BLACK SEA. THE 340D AK WAS SEEN FITTING OUT IN THE BASIN AT ZELENODOLSK SHIPYARD 340 [REDACTED]

25X1

25X1

25X1

25X1

2098
TOP SECRET CHESS RUFF

25X1

Declassified in Part - Sanitized Copy Approved for Release 2011/11/10 : CIA-RDP78B07179A000200040001-3

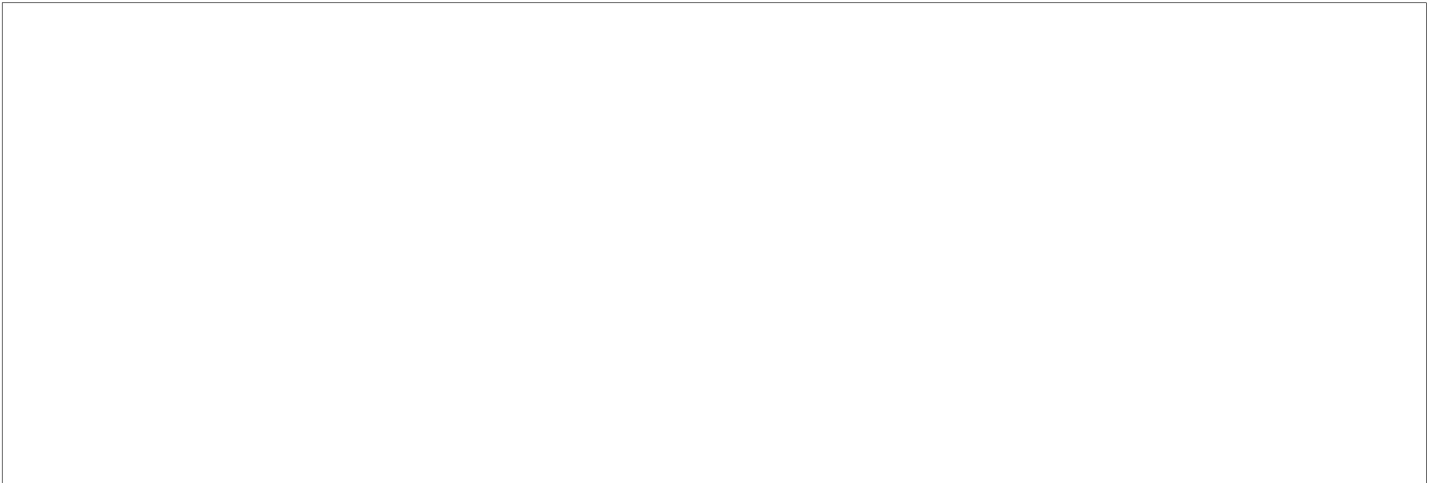
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TOP SECRET CHESS RUFF



25X1



25X1

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NPIC SR SR080-77 NOV 77 [redacted] SEC CLASS: 14D MSN: [redacted] 3P ACCN: S0819925X1

BOLSHOY USSURIYSK OSTROV MILITARY CONST ACT UR 482100N 1345000E
WAC NO : 0204 BE/OBJ NO: [redacted] NPIC NO : - 202
IDHS CODE: [redacted] EPF CAT : 35 COMIREX NO:
TARABAROV OSTROV MILITARY CONSTRUCTION ACT UR 482200N 1343200E
WAC NO : 0204 BE/OBJ NO: [redacted] NPIC NO : - 103-A
IDHS CODE: [redacted] EPF CAT : 35 COMIREX NO:

25X1
25X1

25X1
25X1

25X1

[redacted] EXTENSIVE MILITARY CONSTRUCTION ACTIVITY WAS CONTINUING ON BOLSHOY USSURIYSK (BIG USSURI) AND TARABAROV ISLANDS, WEST OF KHABAROVSK, USSR. BIG USSURI AND TARABAROV ARE TWO OF MANY ISLANDS IN THE AMUR AND USSURI RIVERS WHOSE POSSESSIONS ARE DISPUTED BY THE USSR AND THE PEOPLE'S REPUBLIC OF CHINA.

NPIC BIR RCA20-0001-77 NOV 77 [redacted] SEC CLASS: 14B MSN: [redacted] 5P ACCN: S0819925X1

KUCHINO ELECTRONICS RESEARCH INSTITUTE [redacted] UR 554345N 0380015E
WAC NO : 0167 BE/OBJ NO: [redacted] NPIC NO : - 46-U3
IDHS CODE: [redacted] EPF CAT : 25E COMIREX NO:

25X1
25X1

25X1

2100
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF

25X1

THIS IS THE INITIAL BASIC REPORT ON THE KUCHINO ELECTRONICS RESEARCH INSTITUTE 340 NEAR MOSCOW, USSR. THIS REPORT CONTAINS DESCRIPTIONS OF THE TWO SEPARATE AREAS OF THE INSTITUTE (DESIGNATED A AND B) AND INCLUDES THREE ANNOTATED PHOTOGRAPHS, TWO TABLES, AND MEASURAL DATA. NO INTERPRETABLE IMAGERY WAS AVAILABLE

25X1

THE KUCHINO ELECTRONICS RESEARCH INSTITUTE 340 WAS FIRST MENTIONED IN COLLATERAL SOURCES AND SUBSEQUENTLY WAS IDENTIFIED ON PHOTOGRAPHY IN 1972.

25X1

THE IDENTIFICATION OF THE TWO AREAS AS THE INSTITUTE IS BASED ON COLLATERAL INFORMATION AND THE PRESENCE OF THREE ENVIRONMENTAL DOMES, WHICH SUGGEST A RESEARCH INSTITUTE.

THE KUCHINO ELECTRONICS RESEARCH INSTITUTE IS 0.5 NAUTICAL MILE(NM) EAST OF KUCHINO AND 11 NM EAST OF MOSCOW. THE INSTITUTE CONSISTS OF TWO AREAS APPROXIMATELY 1,600 METERS APART. BETWEEN THE TWO AREAS ARE AN EXTENSIVE RESIDENTIAL COMPLEX, AND EAST-WEST HIGHWAY, A MULTITRACK RAIL LINE, AND A CLAY PRODUCTS PLANT. AREA A, THE NORTHERN AREA, IS BORDERED BY A RESIDENTIAL AREA AND A WOODED AREA. AREA B IS BORDERED ON THE NORTH, EAST, AND SOUTH BY HEAVY INDUSTRIES AND ON THE WEST BY BROKEN FIELDS AND CLAY MINING.

THE IDENTIFICATION OF THE TWO FACILITIES AS BEING RELATED IS BASED ON COLLATERAL SOURCES. EXCEPT FOR THE THREE ENVIRONMENTAL DOMES WHICH HAVE BEEN ADDED TO AREA A NO OTHER ELECTRONICS OR COMMUNICATIONS EQUIPMENT HAS BEEN OBSERVED IN THE TWO AREAS.

25X1

NPIC IIR IIR097-77 17 NOV 77 SEC CLASS: 14B MSN: 2P

ACCN: 5081992

AKHTUBINSK/VLADIMIROVKA ASM/AAM SUPPORT CPLX UR 481853N 0461035E
WAC NO : 0235 BE/OBJ NO: NPIC NO : - 18-C1
IDHS CODE: EPF CAT : 40J COMIREX NO:
MISSILES, AAM NEW PROB UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 40J COMIREX NO:

25X1

25X1

A PROBABLE NEW AIR-TO-AIR MISSILE (AAM) WAS OBSERVED IN THE AAM SUPPORT COMPLEX AT AKHTUBINSK FLIGHT TEST CENTER THE MISSILE WAS BETWEEN TWO SHIPPING CONTAINERS ON THE LARGE CONCRETE APRON IN THE WESTERN PORTION OF THE COMPLEX. SHADOWS CAST BY A SHIPPING CONTAINER PARTIALLY OBSCURED THE STARBOARD CONTROL SURFACES. MEASURAL ANALYSIS WAS PERFORMED ON THE MISSILE AND THE SHIPPING CONTAINERS.

25X1

NPIC IIR IIR098-77 17 NOV 77 SEC CLASS: 14B MSN: 3P

ACCN: 5081993

ODESSA ARMY BKS PROTOPOPOVKA AL11 SIG UNITS UR 463648N 0304600E
WAC NO : 0250 BE/OBJ NO: NPIC NO : - 51-25
IDHS CODE: EPF CAT : 35A COMIREX NO:
ODESSA SIGNAL INTERCEPT SITE UR 4635 N 03055 E
WAC NO : 0250 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25 COMIREX NO:

25X1

25X1

25X1

A RADIO AND RADAR INTERCEPT REGIMENT AND A RADIO INTERCEPT REGIMENT WERE IDENTIFIED ON PHOTOGRAPHY OF

25X1

2101
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

25X1

AT ODESSA ARMY BARRACKS PROTOPOPOVKA AL-11 IN THE ODESSA MILITARY DISTRICT, USSR. AN INTERCEPT SITE ASSOCIATED WITH THESE UNITS WAS OBSERVED 7 NAUTICAL MILES TO THE EAST AND ADJACENT TO ODESSA ARMY BARRACKS SVERDLOVO AL-12.

25X1
25X1

25X1

CIA REPT IS10074K-77 OCT 77 SEC CLASS: 14 MSN: 59P ACCN: S0819925X1

GENERAL CIVIL DEFENSE LENINGRADSKAYA OBLAST UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:
LENINGRADSKAYA OBLAST CIVIL DEFENSE MEASURES UR 6000 N 03200 E
WAC NO : 0102 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 10A COMIREX NO:

THIS REPORT PRESENTS THE RESULTS OF A DETAILED PHOTOGRAPHIC STUDY OF SOVIET CIVIL DEFENSE ACTIVITIES IN LENINGRAD OBLAST. THIS STUDY IS PART OF CIA'S CONTRIBUTION TO AN INTERAGENCY EFFORT TO ASSESS THE OBJECTIVES AND EFFECTIVENESS OF THE SOVIET CIVIL DEFENSE PROGRAM.

NPIC MEMO 22 NOV 77 SEC CLASS: 14B MSN: 7P ACCN: S0820225X1

KOLOMNA RADIO COMMO XMTR CPLX R-600 ANT NEW UR 545930N 0385650E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 134-B1
IDHS CODE: EPF CAT : 25D COMIREX NO:
NARO FOMINSK SRF RADCOM RCVR R-600 ANT NEW UR 551918N 0364749E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 62-C
IDHS CODE: EPF CAT : 25C COMIREX NO:
NOVOPETROVSKOYE SRF RADCOM XMTR R-600 ANT UR 555620N 0362726E
WAC NO : 0167 BE/OBJ NO: NPIC NO : - 141

25X1
25X1
25X1
25X1
25X1

2102
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1
23A1

IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []
PERKHUSHKOVO SRF COMMAND CNTRL BKR R-600 ANT	UR 554120N 0371051E	
WAC NO : 0167	BE/OBJ NO: []	NPIC NO : - 76-A
IDHS CODE: []	EPF CAT : 25C	COMIREX NO: []

25X1
25X1
25X1

NEW R-600 MICROWAVE ANTENNAS WERE CITED AT FOUR MOSCOW AREA COMMAND AND CONTROL FACILITIES. THESE FACILITIES ARE KOLOMNA GENERAL STAFF RADIO COMMUNICATIONS TRANSMITTER COMPLEX, NARO FOMINSK SRF RADIO COMMUNICATIONS RECEIVER COMPLEX, NOVOPETROVSKOYE SRF RADIO COMMUNICATION TRANSMITTER COMPLEX, AND PERKHUSHKOVO SRF NATIONAL COMMAND AND CONTROL/BUNKER. ALSO AN R-406 MICROWAVE ANTENNA WHICH IS A MOBILE VARIATION OF THE R-600 HAS BEEN CITED AT THREE OF THE ABOVE LOCATIONS.*

DIA NBRG NDA06-5091-77 08 NOV 77 SEC CLASS: 05B MSN: 1P ACCN: S082033

SAYDA GUBA NAVAL MISSILE STORAGE	UR 691502N 0332133E
WAC NO : 0051	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 40G
	NPIC NO : - 31-B
	COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5092-77 08 NOV 77 SEC CLASS: 05B MSN: 1P ACCN: S082034

ANDREEVA GUBA NUCLEAR SUBMARINE SUPPORT FACIL	UR 692705N 0322136E
WAC NO : 0051	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75A
	NPIC NO : - 40-B
	COMIREX NO: []

25X1
25X1

DIA NBRG NDA06-5093-77 08 NOV 77 SEC CLASS: 05B MSN: 1P ACCN: S082035

PALA GUBA NAVAL BASE + SHIP REPAIR YARD	UR 691156N 0332456E
WAC NO : 0051	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75B
	NPIC NO : - 47
	COMIREX NO: []
PALA GUBA NAVAL BASE + SHIP REPAIR YARD	UR 691156N 0332456E
WAC NO : 0051	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75E
	NPIC NO : - 47
	COMIREX NO: []

25X1
25X1
25X1
25X1

DIA NBRG NDA06-5095-77 12 NOV 77 SEC CLASS: 05B MSN: 1P ACCN: S082036

LIEPAJA NAVAL FACILITIES APPROACHES	UR 563100N 0210100E
WAC NO : 0152	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75
	NPIC NO :
	COMIREX NO:

25X1
25X1

DIA NBRG NDA06-5096-77 12 NOV 77 SEC CLASS: 05B MSN: 1P ACCN: S082037

LIEPAJA NAVAL BASE + SHIPYARD	UR 563248N 0210153E
WAC NO : 0152	BE/OBJ NO: []
IDHS CODE: []	EPF CAT : 75B
	NPIC NO : - 4
	COMIREX NO: []

25X1
25X1

2103
TOP SECRET CHESS RUFF

25X1

[Redacted]

TOP SECRET CHESS RUFF

[Redacted]

25X1

LIEPAJA NAVAL BASE + SHIPYARD

WAC NO : 0152 BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 75E

UR 563248N 0210153E
NPIC NO : - 4
COMIREX NO: [Redacted]

DIA IIM 5B3-57731-77 23 NOV 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 4P

ACCN: S08204025X1

RYAZAN/DYAGILEVO AIRFIELD BISON M-4 DPL

WAC NO : 0166 BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 05A

UR 543830N 0393412E
NPIC NO : - 20-B
COMIREX NO: [Redacted]

DIA IIM 5B3-57733-77 28 NOV 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 1P

ACCN: S08204125X1

CHELYABINSK RADIO PLANT SEARCH

WAC NO : 0164 BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 25E

UR 551008N 0612509E
NPIC NO :
COMIREX NO:

25X1

[Large Redacted Block]

25X1

DIA IIM 5B3-57784-77 18 NOV 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 2P

ACCN: S08204125X1

KIROVSKOYE AIRFIELD SOUTH

WAC NO : 0205 BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 05A

UR 504045N 1424515E
NPIC NO : - 12
COMIREX NO:

DIA IIM 5B3-57789-77 18 NOV 77 [Redacted] SEC CLASS: 13 MSN: [Redacted] 1P

ACCN: S08204125X1

KEM/UZHMANA AIRFIELD CRATES U/I

WAC NO : 0091 BE/OBJ NO: [Redacted]
IDHS CODE: [Redacted] EPF CAT : 05A

UR 645515N 0341548E
NPIC NO : - 8
COMIREX NO: [Redacted]

25X1
25X1

2104
TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

DIA IIM 5B1-57792-77 NOV 77 [] SEC CLASS: 14B MSN: [] 4P ACCN: S082046 25X1
 KRALJEVO AMMUNITION DEPOT DRAKCICI YO 434450N 0203507E 25X1
 WAC NO : 0322 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 35F COMIREX NO: 25X1

DIA IIM 5B3-57800-77 25 NOV 77 [] SEC CLASS: 13 MSN: [] 3P ACCN: S082047 25X1
 KLIN MACHINE TOOL PLANT UR 561937N 0364154E 25X1
 WAC NO : 0154 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: 25X1

DIA IIM 5B3-57801-77 25 NOV 77 [] SEC CLASS: 13 MSN: [] 8P ACCN: S082048 25X1
 KOLOMNA HEAVY MACHINE TOOL PLANT UR 550412N 0384734E 25X1
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: 25X1

DIA IIM 5B3-57803-77 28 NOV 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S082049 25X1
 MOSKVA MACHINE TOOL PLANT SPETSTANOK UR 554754N 0373559E 25X1
 WAC NO : 0167 BE/OBJ NO: [] NPIC NO : 25X1
 IDHS CODE: [] EPF CAT : 30C COMIREX NO: 25X1

2105
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



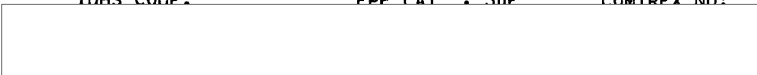
25X1

OF TWO REVETMENTS IN AN ADJACENT GROUP. POSITIVE IDENTIFICATION OF THE LATTER EQUIPMENT WAS HAMPERED BY EXTENSIVE CANVAS COVERING.

CIA NOTE ISSN0008K-77 11 NOV 77 [redacted] SEC CLASS: 14 MSN: 14P ACCN: S08205,25X1

GENERAL, WEATHER DATA COLLECTION MODERNIZED	CH		
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 10D	COMIREX NO:	
TRANSPORTATION, CAPSULE-TUBE PIPELINE SYSTEM	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE:	EPF CAT : 85E	COMIREX NO:	
UMGABABA HEAVY MINERALS CONCENTRATION PLANT	SF 3008 S 03050 E		
WAC NO : 1398	BE/OBJ NO:	NPIC NO :	
IDHS CODE: [redacted]	EPF CAT : 30B	COMIREX NO:	25X1
RICHARDS BAY HEAVY MINERALS CONCENTRATION PLT	SF 2848 S 03205 E		
WAC NO : 1398	BE/OBJ NO:	NPIC NO :	
IDHS CODE: [redacted]	EPF CAT : 30B	COMIREX NO:	25X1
MINUSINSK HEAVY EQUIPMENT PLANT U/C	UR 5343 N 09142 E		
WAC NO : 0161	BE/OBJ NO:	NPIC NO :	
IDHS CODE: [redacted]	EPF CAT : 30C	COMIREX NO:	25X1
POHAIWAN OILFIELD NEW	CH 3859 N 11606 E		
WAC NO : 0781	BE/OBJ NO:	NPIC NO :	25X1
IDHS CODE: [redacted]	EPF CAT : 30A	COMIREX NO:	25X1

KOLPINO HEAVY EQUIPMENT PLANT IZHORA ZHDANOV	UR 594535N 0302955E		
WAC NO : 0153	BE/OBJ NO: [redacted]	NPIC NO : - 36-L	25X1
IDHS CODE: [redacted]	EPF CAT : 30C	COMIREX NO: [redacted]	25X1
LENINGRAD ELECTRICAL EQUIPMENT PLANT KIROV 38	UR 595252N 0301940E		
WAC NO : 0153	BE/OBJ NO: [redacted]	NPIC NO : - 36-N	25X1
IDHS CODE: [redacted]	EPF CAT : 30D	COMIREX NO: [redacted]	25X1
LENINGRAD METALS PLANT 22ND PARTY CONGRESS	UR 595748N 0302320E		
WAC NO : 0153	BE/OBJ NO: [redacted]	NPIC NO : - 36-R6	25X1
IDHS CODE: [redacted]	EPF CAT : 30C	COMIREX NO: [redacted]	25X1
INDUSTRY, POWER PLANT COMPONENT MFG EXPANSION	UR		
WAC NO :	BE/OBJ NO:	NPIC NO :	
IDHS CODE: [redacted]	EPF CAT : 30E	COMIREX NO:	25X1



25X1



25X1

2106
TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1
25X1

25X1

NPIC IIR IIR100-77 21 NOV 77 [REDACTED] SEC CLASS: 14B MSN: [REDACTED] 5P

ACCN: S082055 25X1

KAPUSTIN YAR MTC SS-X-20 TRAINING FIELD-DPL UR 484107N 0455853E
WAC NO : 0235 BE/OBJ NO: [REDACTED] NPIC NO : - 10
IDHS CODE: [REDACTED] EPF CAT : 40B COMIREX NO: [REDACTED]

25X1
25X1

CANVAS-COVERED SS-X-20 VEHICLES PROBABLY INVOLVED IN FIELD-DEPLOYED CREW TRAINING WERE SEEN AT TWO AREAS WITHIN THE KAPUSTIN YAR MISSILE/SPACE TEST CENTER SSM, USSR, [REDACTED] THE TWO AREAS ARE ABOUT 3 NAUTICAL MILES (NM) APART AND 20 NM NORTHWEST OF THE RANGEHEAD. IN ADDITION TO THE OBSERVATION ON [REDACTED] THE WESTERNMOST AREA WAS ALSO OCCUPIED [REDACTED] WHILE THE EASTERNMOST AREA WAS OCCUPIED ONLY [REDACTED] A REVIEW OF PREVIOUS IMAGERY OF THESE AREAS REVEALED THAT THE WESTERNMOST AREA WAS ALSO OCCUPIED [REDACTED] BOTH AREAS CONTAIN SCRUB TREES AND BRUSH, MAKING THE PRESENCE OF CANVAS-COVERED VEHICLES DIFFICULT TO DETECT.

25X1
25X1
25X1
25X1

2107
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

NPIC MEMO [redacted] 29 NOV 77 [redacted] SEC CLASS: 14D MSN: [redacted] 1P ACCN: S0820525X1

IRKUTSK RADIO RELAY STATION SEARCH UR 5152 N 10455 E
WAC NO : 0200 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 25D COMIREX NO:

25X1

NPIC MEMO [redacted] 29 NOV 77 [redacted] SEC CLASS: 14B MSN: [redacted] 2P ACCN: S0820525X1

ALMA ATA COMSAT STATION UR 432943N 0764115E
WAC NO : 0329 BE/OBJ NO: NPIC NO : - 1-J4
IDHS CODE: EPF CAT : 25C COMIREX NO:

25X1
25X1

CIA INFR IS10156-77 15 NOV 77 SEC CLASS: 05 MSN: 24P ACCN: S082080

ADEN PORT FACILITIES YS 124715N 0450027E
WAC NO : 0687 BE/OBJ NO: NPIC NO : - 15
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

AL HUDAYDAH PORT FACILITIES YE 145001N 0425603E
WAC NO : 0687 BE/OBJ NO: NPIC NO : - 2
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

ASEB PORT FACILITIES ET 130030N 0424530E
WAC NO : 0687 BE/OBJ NO: NPIC NO : - 16-A
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

MITSIWA PORT FACILITIES ET 1537 N 03928 E
WAC NO : 0688 BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1

BEIRA PORT FACILITIES MZ 194932S 0345005E
WAC NO : 1176 BE/OBJ NO: NPIC NO : - 4-A
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

LOURENCO MARQUES PORT FACILITIES MZ 255830S 0323415E
WAC NO : 1299 BE/OBJ NO: NPIC NO : - 1-A1
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

NACALA PORT FACILITIES MZ 143212S 0404015E
WAC NO : 1155 BE/OBJ NO: NPIC NO : - 2-A
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

AL BASRAH PORT FACILITIES IZ 303349N 0474737E
WAC NO : 0445 BE/OBJ NO: NPIC NO : - 3-6
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1

UMM QASR PORT FACILITIES IZ 300152N 0475657E
WAC NO : 0445 BE/OBJ NO: NPIC NO : - 6
IDHS CODE: EPF CAT : 75I COMIREX NO:

25X1
25X1.1

VISHAKHAPATNAM PORT FACILITIES IN 174152N 0831703E
WAC NO : 0674 BE/OBJ NO: NPIC NO : - 9-E

25X1

2108
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

IDHS CODE: [] EPF CAT : 751 COMIREX NO:

25X1

THIS MEMORANDUM PRESENTS THE RESULTS OF A PHOTOGRAPHIC STUDY OF 10 INDIAN OCEAN AND PERSIAN GULF PORTS. THE PURPOSE OF THE STUDY WAS TO IDENTIFY WHAT FACILITIES EXIST AT THESE PORTS THAT THE SOVIETS MIGHT BE ABLE TO USE IF BERBERA, SOMALIA, WAS NO LONGER AVAILABLE TO THEM.

ALL OF THE PORTS WERE IMAGED ONE OR MORE TIMES ON GOOD QUALITY IMAGERY []

25X1

THE RESULTS OF THE ANALYSIS OF THESE PORTS ARE INCLUDED IN INDIVIDUAL PORT SUMMARIES AND ACCOMPANYING PHOTOGRAPHS. AN ATTEMPT WAS MADE TO PROVIDE THE BEST QUALITY IMAGERY OF EACH PORT ALTHOUGH IN MANY CASES THE ENLARGEMENTS WERE MADE FROM PHOTOGRAPHY WHICH IS OLDER THAN THAT USED FOR THE DETAILED ANALYSIS.

25X1

CIA INFR IS10154K-77 08 NOV 77 [] SEC CLASS: 13 MSN: 11P ACCN: S082081 25X1

BAKU RADIO RELAY/TV/FM BROADCASTING CENTER	UR	402124N 0494935E	
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 8-R6	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO:	25X1
BAKU RADIO RELAY/TV/FM BROADCASTING CENTER	UR	402124N 0494935E	
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 8-R6	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BAKU RADIO RELAY + TROPOSCATTER STATION	UR	401942N 0494812E	
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 8-V1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
ALYAT PRISTAN RADIO RELAY STATION	UR	395635N 0492410E	
WAC NO : 0339	BE/OBJ NO: []	NPIC NO : - 46	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BAKU MILITARY RADIO RELAY + RADIO COMMO STA	UR	402005N 0494755E	
WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 8-A4	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
ALYAT PRISTAN RADIO RELAY STATION	UR	395500N 0492440E	
WAC NO : 0339	BE/OBJ NO: []	NPIC NO : - 9-A	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1

THIS MEMORANDUM DESCRIBES THE MICROWAVE LINKS BETWEEN BAKU (40-24N 49-52E) AND ALYAT (39-57N 49-24E), USSR. A TABLE LISTS THE MICROWAVE TOWERS, THEIR COORDINATES, TOWER AND ANTENNA HEIGHTS, ANTENNA AZIMUTHS, AND CORRESPONDENTS. A PHOTOGRAPHIC ENLARGEMENT OF EACH TOWER IS ALSO PROVIDED.

25X1

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TOP SECRET CHESS RUFF

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TOP SECRET CHESS RUFF

REF 25X1

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CIA INFR IS10141K-77 30 NOV 77 [] SEC CLASS: 13 MSN: [] 5P ACCN: S0820825X1

WUCHAI MTC SSM TRACKING FACILITY 4 INSTR CH 384700N 1114500E
WAC NO : 0382 BE/OBJ NO: [] NPIC NO : - 77-1
IDHS CODE: [] EPF CAT : 25C COMIREX NO: []

25X1
25X1

ANALYSIS OF INSTRUMENTATION AT WU-CHAI TRACKING FACILITY 4 REVEALS TWO PROBABLE FOUR-ELEMENT TELEMETRY ANTENNAS, A PROBABLE OPTICAL TRACKING BUILDING, AND FIVE VERTICAL MASTS THAT ARE PROBABLY FOR HF COMMUNICATIONS.

THE TWO TELEMETRY ANTENNAS, MOUNTED ON PEDESTALS ATOP TWO CIRCULAR, MASONRY TOWERS, APPEAR SIMILAR TO THE TOWER-MOUNTED FOUR-ELEMENT ANTENNA ARRAY AT LAI-YANG TRACKING FACILITY []. AN ANNOTATED PHOTOGRAPH OF TRACKING FACILITY 4 AND A SKETCH OF THE TELEMETRY ANTENNAS ARE PROVIDED.

25X1

CIA INFR IS10148J-77 09 NOV 77 [] SEC CLASS: 24 MSN: [] 4P ACCN: S0820825X1

TUNHUANG METEOROLOGICAL RADAR FACILITY WEST CH 400744N 0943507E
WAC NO : 0331 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 10D COMIREX NO: []
TUNHUANG METEOROLOGICAL RADAR FACILITY EAST CH 400825N 0944054E
WAC NO : 0331 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 10D COMIREX NO: []

25X1

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TWO METEOROLOGICAL RADAR FACILITIES, WHICH OIA BELIEVES WERE POSSIBLY USED TO COLLECT WEATHER DATA IN THE AREA WHERE CHINA'S PHOTOGRAPHIC RECONNAISSANCE SATELLITES WERE RECOVERED, HAVE BEEN LOCATED NEAR TUN-HUANG IN WESTERN KANSU PROVINCE, CHINA. ONE OF THE FACILITIES CONTAINS END TRAY METEOROLOGICAL RADARS AND THE OTHER CONTAINS PARACEL A METEOROLOGICAL RADAR AND A METEOROLOGICAL STATION. ONE ADDITIONAL METEOROLOGICAL STATION IS PRESENT NEAR THE CENTER OF TUN-HUANG, BUT BECAUSE OF ITS SIZE AND LOCATION, IT IS DOUBTFUL IF IT IS DIRECTLY RELATED TO THE SATELLITE RECOVERY OPERATIONS.

CIA INFR IS10160K-77 21 NOV 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S082025X1

SARY SHAGAN MTC COMPLEX F DOWNRANGE DEBRIS UR 462629N 0725108E

REF 25X1

2110
TOP SECRET CHESS RUFF

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[Redacted]

TOP SECRET CHESS RUFF [Redacted]

25X1
25X1

WAC NO : 0245 BE/OBJ NO: [Redacted] NPIC NO : - 49-B6
IDHS CODE: [Redacted] EPF CAT : 40E COMIREX NO: [Redacted]

25X1
25X1

CIA INFR IS10163K-77 25 NOV 77 [Redacted] SEC CLASS: 13 MSN: 3P ACCN: S082086

25X1

MILITARY, ACTIVITY SUMMARY PE
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:
MILITARY, ACTIVITY SUMMARY CI
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 35 COMIREX NO:

THE FIRST SOVIET SA-3 MISSILE SYSTEM IN SOUTH AMERICA WAS IDENTIFIED IN LIMA, PERU, [Redacted]
[Redacted] AN SA-3 MISSILE REGIMENT (12 LAUNCHERS, EACH WITH FOUR MISSILE RAILS) WAS IDENTIFIED IN AN
OPEN STORAGE AREA OF THE LIMA ARMY BARRACKS AND SCHOOL CHORRILLOS. INITIALLY THE SA-3S WILL PROBABLY BE
KEPT AT THE SCHOOL TO TRAIN PERUVIAN TECHNICIANS AND MISSILE CREWS. IN ADDITION, [Redacted] PHOTOGRAPHY
OF CAPITAN MONTES AIRFIELD REVEALED 14 SU-22 FUSELAGE CRATES AND 22 ASSEMBLED VARIABLE-WING SU-22
AIRCRAFT. THIS CONFIRMS THE DELIVERY OF THE 36 SU-22 AIRCRAFT THAT THE PERUVIANS PURCHASED FROM THE
SOVIETS.

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TOP SECRET CHESS RUFF



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CIA INFR IS10155J-77 22 NOV 77



SEC CLASS: 24

MSN:



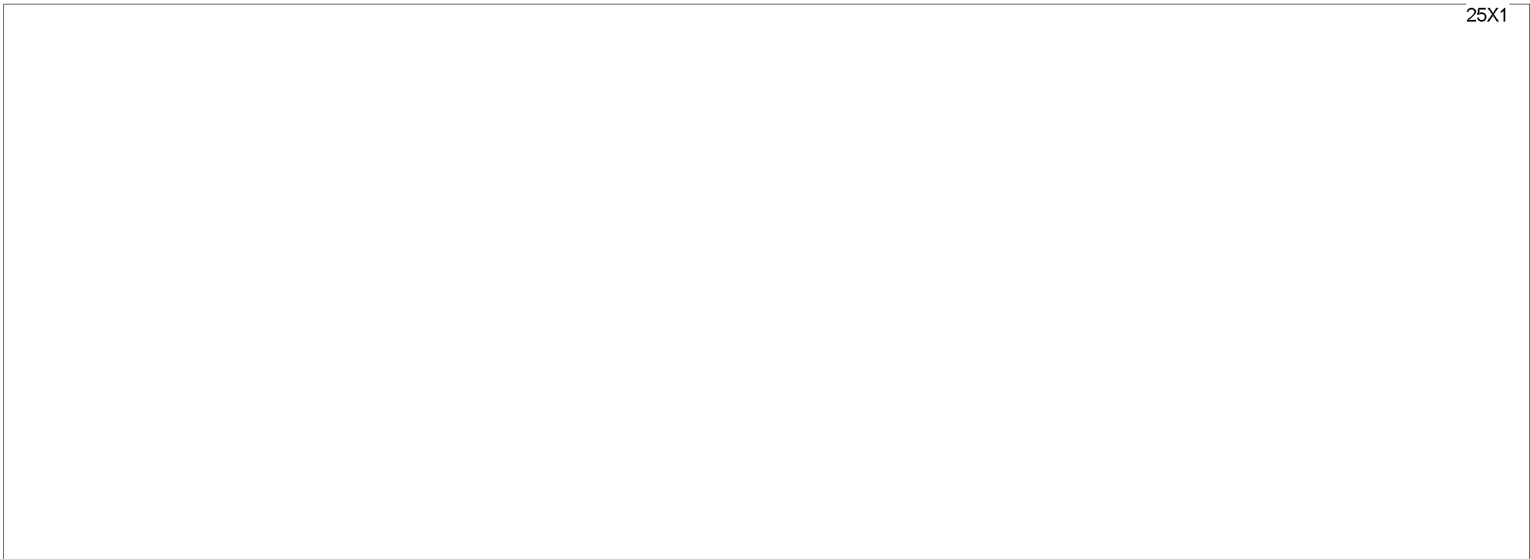
26P

ACCN: S0820825X1.1

MILITARY, 63RD TACTICAL AAA DIVISION WUHAN MR	CH
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35D
MILITARY, 71ST TACTICAL AAA DIVISION WUHAN MR	CH
WAC NO :	BE/OBJ NO:
IDHS CODE:	EPF CAT : 35D

NPIC NO :
COMIREX NO:
NPIC NO :
COMIREX NO:

THERE ARE TWO INDEPENDENT TACTICAL AAA DIVISIONS IN THE WU-HAN MILITARY REGION, CHINA. ONE IS THE 63RD DIVISION, CENTERED AROUND CHENG-CHOU, APPROXIMATELY 450 KILOMETERS (KM) NORTH OF THE CITY OF WU-HAN. THE OTHER IS THE 71ST DIVISION, LOCATED NEAR HSIANG-YANG, APPROXIMATELY 175 KM NORTHWEST OF THE CITY OF WU-HAN. THE 63RD DIVISION IS ORGANIZED INTO SIX SEPARATELY DEPLOYED REGIMENTS, AND THE 71ST IS ORGANIZED INTO FIVE.



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[Redacted]

25X1

NPIC IIR IIR101-77 01 DEC 77 [Redacted] SEC CLASS: 14D MSN: [Redacted] 3P ACCN: S08209 [Redacted] 25X1

SANYUAN SAM TRAINING AREA TRACKING/GDNC RDRS		CH 343900N 1085830E
WAC NO : 0384	BE/OBJ NO: [Redacted]	NPIC NO : - 11-A
IDHS CODE: [Redacted]	EPF CAT : 25C	COMIREX NO: [Redacted]
ELECTRONICS, SANYUAN B RADAR		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25A	COMIREX NO:
ELECTRONICS, SANYUAN A RADAR		CH
WAC NO :	BE/OBJ NO:	NPIC NO :
IDHS CODE:	EPF CAT : 25A	COMIREX NO:

25X1
25X1

MODIFICATIONS TO TWO CSA-1 TRACKING AND GUIDANCE RADARS WERE IDENTIFIED AT THE SAN-YUAN SAM TRAINING AREA, CHINA. THE MODIFICATIONS TO THE TRACKING AND GUIDANCE RADARS AT THIS SAM TRAINING AREA INDICATE THAT AN ACTIVE AND ONGOING PROGRAM DESIGNED TO UPGRADE THE ELECTRONIC CAPABILITIES OF THE CSA-1 SYSTEM IS UNDERWAY.

25X1

[Redacted]

25X1

NPIC MEMO [Redacted] 07 DEC 77 [Redacted] SEC CLASS: 14D MSN: [Redacted] 5P ACCN: S08209 [Redacted] 25X1

KOROLENKO RADIO RELAY STATION		UR 560826N 0982807E
WAC NO : 0159	BE/OBJ NO: [Redacted]	NPIC NO : - 33-A
IDHS CODE: [Redacted]	EPF CAT : 25D	COMIREX NO:
NOVOCHUNKA RADIO RELAY STATION		UR 560612N 0991335E
WAC NO : 0127	BE/OBJ NO: [Redacted]	NPIC NO : - 45
IDHS CODE: [Redacted]	EPF CAT : 25D	COMIREX NO:

25X1
25X1
25X1

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TOP SECRET CHESS RUFF

[Redacted]

25X1

TOP SECRET CHESS RUFF

25X1

SAVELYEVKA RADIO RELAY STATION EAST	UR	560655N 1001010E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 44	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
TURMA RADIO RELAY STATION	UR	561158N 1005420E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 43	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BRATSK TV CENTER	UR	560925N 1013510E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 1-Q2	25X1
IDHS CODE: []	EPF CAT : 25B	COMIREX NO: []	25X1
KOBYAKOVO RADIO RELAY STATION	UR	563540N 1013300E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 34	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
SEDANOVO RADIO RELAY STATION	UR	565610N 1011750E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 35	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
YERSHOVA RADIO RELAY STATION	UR	571250N 1015230E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 36	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BANSHCHIKOVO RADIO RELAY STATION	UR	572820N 1021550E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 13-A1	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
UST YE ILIMA RADIO RELAY STATION	UR	574420N 1022530E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 37	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
UST ILIMSK RADIO RELAY STATION NORTH	UR	580200N 1023700E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 30-B	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO:	25X1
BRATSK RADIO RELAY STATION OSINOVKA SE	UR	561430N 1015605E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 1-R	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
MAMYR RADIO RELAY STATION	UR	563348N 1023319E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 26	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1
VIDIM RADIO RELAY STATION	UR	562348N 1030935E	
WAC NO : 0127	BE/OBJ NO:	NPIC NO : - 27	25X1
IDHS CODE: []	EPF CAT : 25D	COMIREX NO: []	25X1

ALL PERTINENT KEYHOLE PHOTOGRAPHY SINCE [] WAS REVIEWED TO DETERMINE THE ANTENNA SYSTEM IN USE ALONG THE BRATSK - UST ILIMSK RADIO-RELAY LINE. BECAUSE OF CHANGES UNCOVERED DURING THE INITIAL REVIEW, THE ORIGINAL SCOPE OF THIS STUDY WAS EXPANDED TO INCLUDE STATIONS ALONG THE TAYSHET - BRATSK - YAKUTSK RADIO-RELAY LINE. A TOTAL OF 14 STATION DESCRIPTIONS ARE INCLUDED IN THIS MEMORANDUM.*

2115
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

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23A1

NPIC MEMO

09 DEC 77

SEC CLASS: 14D

MSN:

1P

ACCN: S082105

SMOLENSK 1056Z EMITTER RADAR SEARCH

UR 5435 N 03210 E

WAC NO : 0167

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 25A

COMIREX NO:

25X1

CIA INFR

IS10168K-77

09 DEC 77

SEC CLASS: 13

MSN:

14P

ACCN: S0821325X1

NAVAL, NAVAL INFANTRY ORGANIZATION/INSTLS

UR

WAC NO :

BE/OBJ NO:

NPIC NO :

IDHS CODE:

EPF CAT : 75

COMIREX NO:

THIS STUDY DESCRIBES THE ORGANIZATION, EQUIPMENT, AND DISPOSITION OF THE NAVAL INFANTRY UNITS IN THE
BAL TIC, BLACK SEA, NORTHERN FLEET AND PACIFIC FLEET AREAS, AND POINTS OUT THE DIFFERENCES BETWEEN OIA'S
FINDINGS AND THOSE CONTAINED IN A DIA STUDY PUBLISHED IN 1975. IT ALSO DESCRIBES THE

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2116

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TOP SECRET CHESS RUFF

25X1
25X1

LEVEL OF ACTIVITY, TRAINING, AND ANY SPECIALIZED TRAINING FOR EACH UNIT.*

CIA INFR IS10130K-77 02 DEC 77 [] SEC CLASS: 14 MSN: 10P ACCN: 5082139 25X1

SEVASTOPOL SHIPYARD 497 SVRDLOV CL MODIFIED	UR	443646N	0333211E	
WAC NO : 0250	BE/OBJ NO :		NPIC NO : - 62-C	25X1
IDHS CODE :	EPF CAT : 75E		COMIREX NO :	25X1
VLADIVOSTOK NAVAL BASE + SHPYD SVRDLOV MODIF	UR	430628N	1315510E	
WAC NO : 0291	BE/OBJ NO :		NPIC NO : - 48-C	25X1
IDHS CODE :	EPF CAT : 75E		COMIREX NO :	25X1
VLADIVOSTOK NAVAL BASE + SHPYD SVRDLOV MODIF	UR	430628N	1315510E	
WAC NO : 0291	BE/OBJ NO :		NPIC NO : - 48-C	25X1
IDHS CODE :	EPF CAT : 75B		COMIREX NO :	25X1
SHIPS, SVRDLOV CLASS CL MODERNIZATION	UR			
WAC NO :	BE/OBJ NO :		NPIC NO :	25X1
IDHS CODE :	EPF CAT : 75D		COMIREX NO :	25X1

A PROGRAM TO MODERNIZE AND PROBABLY EXTEND THE USEFUL LIFE OF THREE SVRDLOV-CLASS LIGHT CRUISERS (CL), WHICH HAVE BEEN IN RESERVE STATUS, WAS BEGUN IN SEVASTOPOL IN MID-1973 AND IN VLADIVOSTOK IN LATE 1974. ONE OF THESE SHIPS IS NOW OPERATIONAL AND CURRENTLY IN THE BALTIC FLEET AREA. THE OTHER TWO SHIPS ARE IN THE YARDS AT SEVASTOPOL AND VLADIVOSTOK, STILL IN THE EARLY STAGES OF MODERNIZATION. WHEN THEY ARE COMPLETED THERE WILL BE ONLY ONE SVRDLOV-CLASS CL IN RESERVE, AND THIS SHIP WILL PROBABLY NOT BE MODERNIZED.

CIA INFR IS10125K-77 12 DEC 77 [] SEC CLASS: 13 MSN: 7P ACCN: 5082140 25X1

INDUSTRY, GOLD ORE PROCESSING PLANTS MAJOR	UR			
WAC NO :	BE/OBJ NO :		NPIC NO :	
IDHS CODE :	EPF CAT : 30B		COMIREX NO :	
MURUNTAU GOLD ORE CONCENTRATION PLANT	UR	412830N	0643120E	
WAC NO : 0327	BE/OBJ NO :		NPIC NO : - 20	25X1
IDHS CODE :	EPF CAT : 30B		COMIREX NO :	25X1
NIZHNIY KURANAKH GOLD COMPLEX	UR	584900N	1253200E	
WAC NO : 0129	BE/OBJ NO :		NPIC NO :	25X1
IDHS CODE :	EPF CAT : 30B		COMIREX NO :	25X1
OMCHAK GOLD ORE CONCENTRATION PLANT	UR	613920N	1475300E	
WAC NO : 0123	BE/OBJ NO :		NPIC NO : - 18	25X1
IDHS CODE :	EPF CAT : 30B		COMIREX NO :	25X1
ZOD ARARAT GOLD PLANT	UR	395030N	0444420E	
WAC NO : 0340	BE/OBJ NO :		NPIC NO :	25X1
IDHS CODE :	EPF CAT : 30B		COMIREX NO :	25X1

CIA INFR IS10166K-77 01 DEC 77 [] SEC CLASS: 13 MSN: 3P ACCN: 5082141 25X1

2117
TOP SECRET CHESS RUFF

25X1



TOP SECRET CHESS RUFF



25X1
25X1

POHAIWAN OILFIELD NEW
WAC NO : 0381 BE/OBJ NO: CH 3859 N 11606 E
IDHS CODE: [] EPF CAT : 30A NPIC NO :
COMIREX NO:

25X1

RECENT PHOTOGRAPHY INDICATES THAT A MAJOR NEW OILFIELD IS IN PARTIAL PRODUCTION IN THE PO-HAI AREA OF THE NORTH CHINA BASIN. THE FIELD IS PROBABLY THE RECENTLY REPORTED HUA-PEI OILFIELD.*

CIA INFR IS10169K-77 06 DEC 77 [] SEC CLASS: 13 MSN: 26P ACCN: S082142^{25X1}

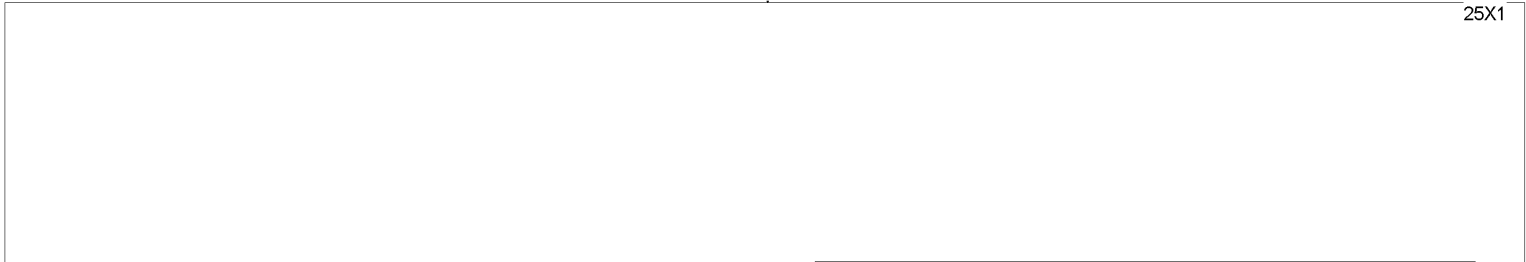
AIRCRAFT, AIRFRAME PLANTS EXPANSION UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 05G COMIREX NO:

A REVIEW OF 20 SELECTED SOVIET AIRFRAME PLANTS SHOWS THAT 16 OF THE 20 PLANTS CURRENTLY HAVE A MAJOR EXPANSION PROGRAM UNDERWAY. EXPANSION AT THE OTHER FOUR PLANTS COULD BE TERMED NOMINAL. HOWEVER, THE PRODUCTION CAPACITY AT ALL THE PLANTS IS BEING INCREASED. THIS SUGGESTS THAT THE SOVIETS ARE CONTINUING TO MODERNIZE THE AIRCRAFT INDUSTRY IN ORDER TO INCREASE THEIR CAPACITY TO PRODUCE NEW AIRCRAFT SUCH AS THE IL-86 (CAMBER) AIRBUS AND THE YAK-42 (CLOBBER) MEDIUM RANGE TRANSPORT.

CIA INFR IS10167K-77 08 DEC 77 [] SEC CLASS: 13 MSN: 21P ACCN: S082142^{25X1}

SHIPS, SHIPYARDS EXPANSION 1963 - 1977 UR
WAC NO : BE/OBJ NO: NPIC NO :
IDHS CODE: EPF CAT : 75E COMIREX NO:

THIS MEMORANDUM PROVIDES A SELECTIVE ANALYSIS OF 13 SOVIET SHIPYARDS FOR INDICATIONS OF GROWTH PATTERNS IN THE SOVIET DEFENSE INDUSTRY. A REVIEW OF THE SHIPYARDS FROM 1963 TO MID-1977 WAS CONDUCTED FOR INFORMATION RELATED TO EXPANSION AND MODERNIZATION OF FACILITIES ALONG WITH BUILDING WAYS AND GENERAL FACILITY UTILIZATION.



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TOP SECRET CHESS RUFF



25X1

TOP SECRET CHESS RUFF

25X1



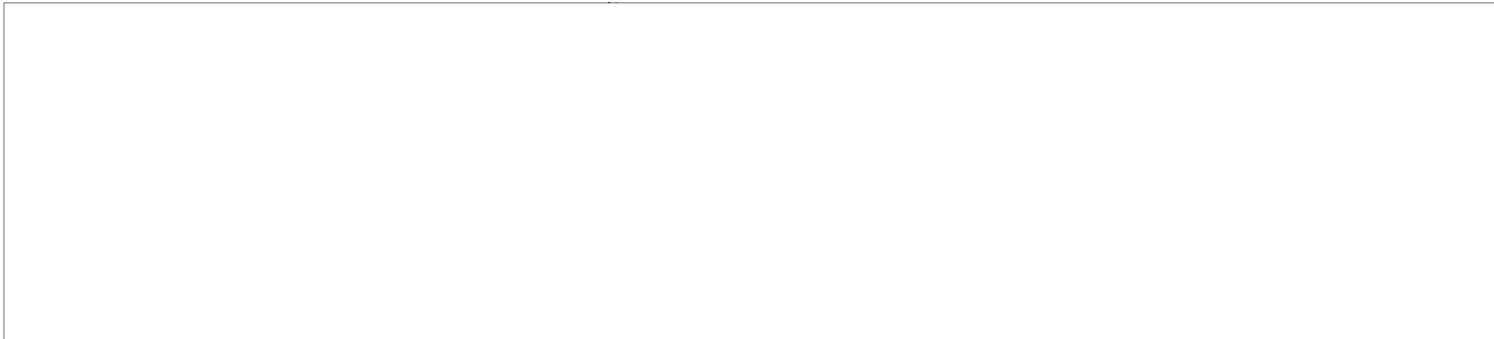
25X1

CIA INFR IS10119K-77 02 DEC 77 [redacted] SEC CLASS: 14 Y MSN: [redacted] 6P ACCN: S082146 25X1

LEBYAZHYE NAVAL ELECTRONICS TEST STATION UR 5957 N 02926 E
WAC NO : 0153 BE/OBJ NO: NPIC NO :
IDHS CODE: [redacted] EPF CAT : 25E COMIREX NO:

25X1

A FIELD TEST STATION INVOLVED WITH NAVAL ELECTRONICS AND COMMUNICATIONS SYSTEMS DEVELOPMENT HAS BEEN REPORTED NEAR THE VILLAGE OF LEBYAZHYE, 30 NAUTICAL MILES WEST OF LENINGRAD ON THE SOUTHERN COAST OF THE GULF OF FINLAND. THE EXISTENCE OF A TEST STATION AT THIS LOCATION HAS BEEN CONFIRMED ON SATELLITE PHOTOGRAPHY, BUT NO SPECIFIC ANTENNAS HAVE BEEN IDENTIFIED AND A NAVAL ASSOCIATION CAN NOT BE CONFIRMED. THIS STATION HAS PROBABLY BEEN ACTIVE TO A LIMITED DEGREE SINCE AT LEAST THE EARLY 1960S, BUT IN THE PAST TEN YEARS FACILITIES HAVE BEEN EXPANDED CONSIDERABLY. THE MOST PROMINENT STRUCTURE AT THE TEST STATION IS A TWO-STORY BUILDING WITH A LARGE INFLATABLE DOME ON THE ROOF WHICH PROVIDES A CONTROLLED ENVIRONMENT FOR ANTENNA TEST ACTIVITIES. OTHER LESS ELABORATE SMALL TEST PLATFORMS ON THE STATION GROUNDS SUGGEST THAT MANY TYPES OF ANTENNAS MAY BE TESTED WITHIN THE COMPOUND.



25X1

2119
TOP SECRET CHESS RUFF

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25X1

NPIC MEMO [] 12 DEC 77 [] SEC CLASS: 14B MSN: [] 2P ACCN: S08214 [] 25X1

BORISPOL RADIO RELAY STATION UR 501835N 0310428E
WAC NO : 0233 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 25D COMIREX NO: [] 25X1

[] PHOTOGRAPHY WAS SEARCHED TO LOCATE TWO PREVIOUSLY
UNREPORTED RADIO-RELAY STATIONS ALONG THE KIEV-POLTAVA ROAD. THE BORISPOL RADIO-RELAY STATION WAS
IDENTIFIED AND A DESCRIPTION IS INCLUDED. THE SECOND REFERENCED RADIO-RELAY STATION COULD NOT BE
IDENTIFIED.* 25X1

DIA IIM 5B3-57878-77 16 DEC 77 [] SEC CLASS: 13 MSN: [] 1P ACCN: S08217 [] 25X1

DEBRECEN AIRFIELD RUNWAY NEW HU 472928N 0213656E
WAC NO : 0251 BE/OBJ NO: [] NPIC NO : - 33 25X1
IDHS CODE: [] EPF CAT : 05A COMIREX NO: [] 25X1

DIA IIM 5B3-57811-77 07 DEC 77 [] SEC CLASS: 13 MSN: [] 4P ACCN: S08217 [] 25X1

ORENBURG MACHINE TOOL PLANT UR 514645N 0550333E
WAC NO : 0236 BE/OBJ NO: [] NPIC NO : []
IDHS CODE: [] EPF CAT : 30C COMIREX NO: [] 25X1

DIA IIM 5B1-57750-77 DEC 77 [] SEC CLASS: 14D MSN: [] 10P ACCN: S08217 [] 25X1

SVOBODNY ICBM SITE 5 GROUND FORCE INSTL CONV UR 515125N 1281220E
WAC NO : 0203 BE/OBJ NO: [] NPIC NO : - 27-B9 25X1
IDHS CODE: [] EPF CAT : 35A COMIREX NO: [] 25X1

2120
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

25X1

SVOBODNY ICBM SITE 5 GROUND FORCE INSTL CONV UR 515125N 1281220E
WAC NO : 0203 BE/OBJ NO: NPIC NO : - 27-B9
IDHS CODE: EPF CAT : 40A COMIREX No:

25X1
25X1

THE SVOBODNY SSM LAUNCH POSITION 5 IS BEING CONVERTED TO A GROUND FORCES ASSOCIATED FACILITY. THE AREA APPEARS MODERATELY TO HIGHLY ACTIVE, IS SERVED BY A DUAL LANE, ALL WEATHER ROAD, AND IS HIGHLY SECURED. THE INSTALLATION CONSISTS OF A BARRACKS/ADMINISTRATION AREA, A VEHICLE STORAGE/MAINTENANCE AREA, THREE VEHICLE OPEN STORAGE AREAS, TRAINING/RECREATIONAL FACILITIES, TWO POL STORAGE AREAS, VARIOUS SUPPORT FACILITIES, AND SEVERAL AREAS THAT WERE ASSOCIATED WITH THE FORMER LAUNCH SITE THAT HAVE BEEN CONVERTED TO GROUND FORCES USE OR THAT ARE BEING DISMANTLED.

DIA	IIM	5B1-57790-77	DEC 77		SEC CLASS: 14D	MSN: []	8P	ACCN: S082177	25X1 25X1
		KARYMSKOYE GENERAL/NZHM ENGR	DEPOT DE/DX1	UR 513658N 1142005E					
		WAC NO : 0201	BE/OBJ NO: []	NPIC NO :					25X1
		IDHS CODE: []	EPF CAT : 35F	COMIREX NO:					25X1
DIA	IIM	5B3-57860-77	14 DEC 77		SEC CLASS: 13	MSN: []	2P	ACCN: S082176	25X1 25X1
		KISHINEV AIRFIELD SE		UR 465555N 0285618E					
		WAC NO : 0250	BE/OBJ NO: []	NPIC NO : - 39-D					25X1
		IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []					25X1
DIA	IIM	5B3-57861-77	14 DEC 77		SEC CLASS: 13	MSN: []	2P	ACCN: S082175	25X1 25X1
		ORDZHONIKIDZEVSAYA AIRFIELD		UR 431920N 0450119E					
		WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 47					25X1
		IDHS CODE: []	EPF CAT : 05A	COMIREX NO: []					25X1
DIA	IIM	5B3-57862-77	14 DEC 77		SEC CLASS: 13	MSN: []	2P	ACCN: S082180	25X1 25X1
		NALCHIK AIRFIELD		UR 433055N 0433822E					
		WAC NO : 0325	BE/OBJ NO: []	NPIC NO : - 42-F					25X1
		IDHS CODE: []	EPF CAT : 05A	COMIREX NO:					25X1
DIA	IIM	5B3-57863-77	14 DEC 77		SEC CLASS: 14	MSN: []	2P	ACCN: S082181	25X1
		DZHERMUK AIRFIELD		UR 394856N 0453953E					
		WAC NO : 0340	BE/OBJ NO: []	NPIC NO : - 67					25X1
		IDHS CODE: []	EPF CAT : 05A	COMIREX NO:					25X1
DIA	IIM	5B3-57855-77	14 DEC 77		SEC CLASS: 13	MSN: []	2P	ACCN: S082182	25X1

25X1

2121
TOP SECRET CHESS RUFF



TOP SECRET CHESS RUFF



25X1

TBILISI/VAZIANI AIRFIELD

WAC NO : 0325

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]

EPF CAT : 05A

UR 413743N 0450152E

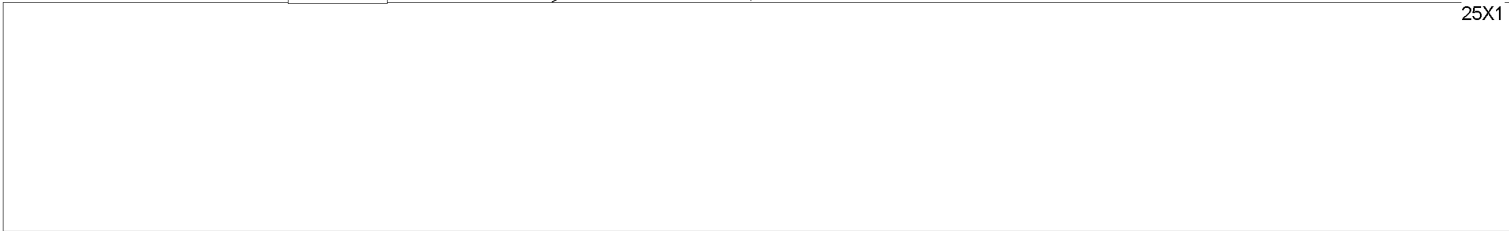
NPIC NO : - 63-A

COMIREX NO: [redacted]

25X1

25X1

25X1



DIA IIM 5B1-57796-77

DEC 77

SEC CLASS: 14D MSN: [redacted]

1P

ACCN: S0821825X1

ANADYR MOTORIZED RIFLE BRIGADE UNITS RELOC

WAC NO : 0075

IDHS CODE: [redacted]

BE/OBJ NO: [redacted]

EPF CAT : 35

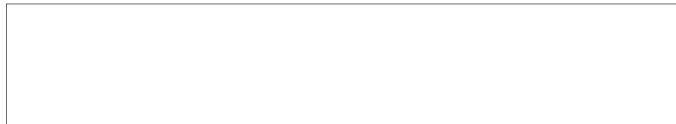
UR 6458 N 17749 E

NPIC NO :

COMIREX NO:

25X1

2122
TOP SECRET CHESS RUFF



List of Conversion Factors by Classification

UNITS OF LENGTH

IF YOU HAVE	MULTIPLY BY	TO OBTAIN
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

UNITS OF AREA

IF YOU HAVE	MULTIPLY BY	TO OBTAIN
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

UNITS OF MASS

IF YOU HAVE	MULTIPLY BY	TO OBTAIN
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

UNITS OF VOLUME

IF YOU HAVE	MULTIPLY BY	TO OBTAIN
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

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