TOO SECRET

PHOTOGRAPHIC INTERPRETATION REPORT



MISSION 1023-1 17-22 AUGUST 1965

PART I

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TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

TCS-81148/65

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OAK - PART I MISSION 1023-I

PREFACE

THIS IS THE FIRST OF TWO OAK REPORTS ON MISSION 1023-1 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANGE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH), D FOR DESCENDING (NORTH-TO-SOUTH), OR M FOR A MIXED ASCENDING AND DESCENDING PASS. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE —C (CLEAR), SC (SCATTERED CLOUDS), HC (HEAVY CLOUDS), H (HAZE), CS (CLOUD SHADOW), S (SNOW), D (OBLIQUITY), SD (SEMIDARKNESS), GC (GROUND COVER), CF (CAMOUFLAGE), AND GR (GROUND RESOLUTION).

INTERPRETABILITY OF THE PHOTOGRAPHY IS CATEGORIZED AS G (GOOD), F (FAIR), OR P (POOR). THE EXTENT OF PHOTOGRAPHIC COVERAGE IS DENOTED BY THE SYMBOLS T (TOTAL) OR PT (PARTIAL). THE MODE OF COVERAGE IS INDICATED BY ST (STERED), NS (NON-STERED), OR PS (PARTIAL STEREO).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERIS DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.



25X1D

Highlights

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HIGHLIGHTS

- 1. EIGHT OF THE 25 KNOWN DEPLOYED ICBM COMPLEXES ARE COVERED BY PHOTOGRAPHY. TATISHCHEVO AND TEYKOVO ARE COVERED BY CLEAR PHOTOGRAPHY. DROVYANAYA, KOSTROMA, KOZELSK, KARTALY, OLOVYANNAYA, AND ZHANGIZ-TOBE ARE COVERED BY SCATTERED-TO-HEAVY CLOUDS. THE REMAINING 17 COMPLEXES AND THE TYURATAM MISSILE TEST CENTER ARE EITHER CLOUD COVERED OR NOT COVERED. THIRTEEN TYPE IIID AND 2 TYPE IIIC LAUNCH SITES ARE NEWLY IDENTIFIED. SEVEN CONFIRMED AND 4 PROBABLE IIID SITES AT OLOVYANNAYA, 2 PROBABLE IIID SITES AT TATISHCHEVO, AND 1 CONFIRMED AND 1 PROBABLE IIIC SITE AT ZHANGIZ-TOBE.
- 2. KAPUSTIN YARAVLADIMIROVKA MISSILE TEST CENTER

25X1A

CENTER IS COVERED BY FAIR-TO-POOR QUALITY PHOTOGRAPHY.
MISSILE ACTIVITY/EXERCISES ARE OBSERVED AT LAUNCH AREAS 1C, 2C,
4C, 5C AND THE TROOP TRAINING AREA WEST OF LAUNCH COMPLEX E. A
NEW LOOP ROAD NOW EXTENDS FROM THE RAIL LINE TO THE LAUNCH
SITE 4C-1 ROAD NETWORK. THE POSSIBLE LAUNCH AREA PREVIOUSLY
IDENTIFIED IN THE SAM LAUNCH COMPLEX IS NOW CONFIRMED AS
A SAM LAUNCH AREA.

3. PEIPING RKT ENG TEST FAC CHANG-HSIN-TIEN

25X1A

A SMALL BLAST MARK IS VISIBLE AT A TEST BUILDING IN THE COMPONENTS TEST AREA LOCATED IN THE NW CORNER OF THE FACILITY.

4. SHATSK FIXED FIELD MRBM SITE 2 (MISSILE BONUS)

A FIXED FIELD SITE IS NEWLY IDENTIFIED 4.5 NM EAST OF SHATSK AT 53-26-10N 027-49-30E.

5. SKRUNDA DUAL HEN HOUSE-TYPE STRUCTURE (MISSILE BONUS)

A NEWLY OBSERVED HEN HOUSE-TYPE ACTIVITY SIMILAR TO THE STRUCTURE NEAR OLENEGORSK IS LOCATED 3.5 NM NW OF SKRUNDA.

6. LIEPAJA AMM/SAM LAUNCH COMPLEX (MISSILE BONUS)

A NEWLY IDENTIFIED AMM/SAM LAUNCH COMPLEX UNDER CONSTRUCTION IS LOCATED 4.5 NM ENE OF LIEPAJA.

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7. ZAOZERNYY ATOMIC ENERGY COMPLEX

25X1A

ROOF OF CASCADE BUILDING D IS NEARING COMPLETION. NEW SECURITY FENCE UNDER CONSTRUCTION WEST OF BUILDING D INCLUDES AREA FOR POSSIBLE FUTURE EXPANSION.

8. NIKOLAYEV SHIPYARD NOSENKO 444

25X1A

VISIBLE DETAILS OF THE 645-FT HULL SUGGEST THAT IT IS A COMBATANT. A TRIANGULAR TOWER MAST IS LOCATED AMID-SHIPS AND A SMALL RECTANGULAR STRUCTURE IS LOCATED AT ABOUT THE NORMAL FORWARD GUN POSITION.

9. KEM PROB TALL KING FACILITY

25X1A

A TALL KING FACILITY IS NEWLY IDENTIFIED 1.5 NM WEST OF KEM.

10. BELEV SENSITIVE OPERATIONS COMPLEX

25X1A

THO BUNKERS, BUNKERS 3 AND 4, ARE NEWLY IDENTIFIED.

STATUS OF COMOR TARGET READOUT

FIFTY COMOR TARGETS WERE OBSERVED DURING THE OAK REPORTING PERIOD AND ARE CONTAINED IN THIS OAK.

Missiles

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MISSILES

25X1A

DROVYANAYA ICBM COMPLEX

UR 5131N 11300E

NO SIGNIFICANT CHANGE OBSERVED AT THE COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, THE UNIDENTIFIED AREA TO THE NORTH OF THE COMPLEX SUPPORT FACILITY, LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 4), D (SITE 3), E (SITE 5), OR F (SITE 6). CONSTRUCTION CONTINUES AT LAUNCH GROUP G (SITES 7-14, 16, 18). ALL OF THE SITES EXCEPT G4 (SITE 10) AND G7 (SITE 13) ARE IN A LATE STAGE OF CONSTRUCTION. CONSTRUCTION CONTINUES AT LAUNCH GROUP H (SITES 15, 19-26) AND ALL OF THE SITES REMAIN IN A MID-STAGE OF CONSTRUCTION.

25X1D

KOSTROMA ICBM COMPLEX

UR 5746N Ø41Ø1E

LAUNCH AREAS B (SITE 2), E (SITE 5), AND F (SITE 6) CAN BE IDENTIFIED ONLY. REMAINDER OF COMPLEX IS CLOUD COVERED.

25X1D

TEYKOVO ICBM COMPLEX

UR 5652N Ø4Ø34E

NO SIGNIFICANT CHANGE OBSERVED IN ANY OF THE COMPONENTS OF THE COMPLEX.

25X1D

KOZELSK ICBM COMPLEX

UR . 5356N Ø3549E

NO SIGNIFICANT CHANGE OBSERVED AT THE COMPLEX SUPPORT FACILITY, RAIL-TO-ROAD TRANSFER POINT, OR LAUNCH AREAS A (SITE 3), B (SITE 2), D (SITE 4), AND E (SITE 5). LAUNCH AREA F (SITE 6) CAN BE IDENTIFIED ONLY.

ACTIVITY CONTINUES AT THE UNIDENTIFIED AREA 13.7 NM SSW OF THE COMPLEX SUPPORT FACILITY. NO SIGNIFICANT CHANGE SINCE THE AREA WAS REPORTED ON MISSION THE OTHER AREAS OF UNIDENTIFIED ACTIVITY ARE

25X1D

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CLOUD-COVERED.

25X1D

25X1A

OLOVYANNAYA ICBM COMPLEX

UR 5049N 11550E

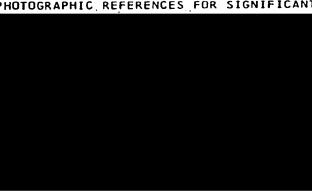
ELEVEN TYPE IIID SITES HAVE BEEN NEWLY, IDENTIFIED. SEVEN OF THESE SITES (G4-G10) COMPLETE LAUNCH GROUP G. THE 4 DTHER SITES HAVE BEEN TENTATIVELY DESIGNATED PROBABLE SITES F2-F5. ALL OF THE NEW SITES IN LAUNCH GROUP G ARE SECURED AND IN THE MID-STAGE OF CONSTRUCTION. SITE G4 (50-45N 115-48E) IS SITUATED 3 NM NE OF G1. G5 (50-42N 115-50E) IS SITUATED 4.7 NM SE OF G1. SITE G6 (50-40N 115-46E) IS 3.7 NM SSE OF G1. SITE G7 (50-41N 115-41E) IS 3 NM SSW OF G1. G8 (50-39N 115-49E) IS 5.7 NM SSE OF G1. G9 (50-39N) 115-41E) IS 5.5 NM SSW OF G1. G10 (50-49N 115-43E) IS 5.3 NM NORTH OF G1. PROBABLE F2 (50-50N 115-56E) IS 3.5 NM ESE OF F1. F3 (50-47N 115-58E) IS 6.1 NM SE OF F1. F4 (50-46N 115-54E) IS 4.7 NM SSE OF F1. F5 (50-49N 115-52E) IS 3 NM SSW OF F1.

NO SIGNIFICANT CHANGE IS OBSERVED AT LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3) OR AT SITES D1-7 (SITES 4-10). SITES D8-10 (SITES 11-13) ARE CLOUD COVERED OR NOT COVERED. CONSTRUCTION CONTINUES AT SITES E1-10 (SITES 14-23). A CABLE DITCH NETWORK IS APPARENT BETWEEN THE SITES.

NO SIGNIFICANT CHANGE IS OBSERVED AT SITES F1 (SITE 24) DR G1-3 (SITES 25-27) BUT CONSTRUCTION CONTINUES.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON PASS

25X1D



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25X1D

25X1A

ZHANGIZ-TOBE ICBM COMPLEX

UR 4912N Ø81Ø9E

25X1D 25X1D ONE CONFIRMED AND 1 PROBABLE LAUNCH AREA (G AND H), IN EARLY STAGES OF CONSTRUCTION, ARE NEWLY IDENTIFIED ON THIS MISSION. CONSTRUCTION STARTED ON BOTH THESE TYPE IIIC LAUNCH AREAS AS EARLY AS MISSION BUT CAN BE NEGATED ON MISSION

LAUNCH AREA G IS LOCATED 14 NM NW OF THE COMPLEX SUPPORT FACILITY AT 49-20N 080-51E. IT CONSISTS OF A SQUARE EXCAVATION CONTAINING AN APPARENT SILO CORING. TWO EARTH RAMPS EXTEND INTO THE EXCAVATION. A RECTANGULAR MOUND IS ON THE NW SIDE OF THE EXCAVATION. GROUND SCARRING AND TRACK ACTIVITY EXTEND APPROXIMATELY 2,500 FT TO THE SE.

PROBABLE LAUNCH AREA H IS LOCATED 16 NM NNW OF THE COMPLEX SUPPORT FACILITY AT 49-26N Ø8Ø-57E. IT CONSISTS OF A SQUARE EXCAVATION WITH 1, POSSIBLY 2, EARTH RAMPS. A RECTANGULAR MOUND IS ON THE NW SIDE OF THE EXCAVATION. NO SECURITY FENCING IS OBSERVED.

THE COMPLEX SUPPORT FACILITY, LAUNCH AREAS B (SITE 2) AND C (SITE 4) CAN BE IDENTIFIED ONLY. LAUNCH AREAS A (SITE 1), D (SITE 5), E (SITE 3), AND F (SITE 6) ARE CLOUD COVERED.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON PASS

25X1D

TATISHCHEVO ICBM COMPLEX

UR 5140N 04534E

NO SIGNIFICANT CHANGE OBSERVED IN COMPLEX SUPPORT FACILITY, THE RAIL-TO-ROAD TRANSFER POINT, OR LAUNCH GROUP A (SITES 1-3, 5-11).

LAUNCH SITE B3 (SITE 17) IS NOW A CONFIRMED TYPE IIID LAUNCH SITE.

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TWO NEW PROBABLE LAUNCH SITES ARE LOCATED AT APPROXIMATELY 51-44N 045-16E AND 51-40N 045-03E. IT CANNOT BE DETERMINED IF THESE NEW SITES ARE ASSOCIATED WITH EXISTING LAUNCH GROUPS OR IF THEY ARE PARTS OF A NEW GROUP. THEY ARE TENTATIVELY DESIGNATED C10 AND C11.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON PASS

25X1D

25X1A

JABAL HAMZI SSM COMPLEX

EG 3007N 03037E

NO APPARENT CHANGE SINCE MOST RECENT COVERAGE.

25X1D

KAPUSTIN YAR/VLADIHIROVKA MSL TEST CTR ..

UR 4835N Ø4545E

CONSTRUCTION CONTINUES AT LAUNCH SITE 4C-1. THE ARCH-ROOFED BUILDING AND THE BUILDING PREVIOUSLY OBSERVED IN THE NEARBY EXCAVATION ARE NOW BOTH EARTH COVERED AND A NEW LOOP ROAD NOW EXTENDS FROM THE RAIL LINE TO THE SITE ROAD NETWORK.

MISSILE ACTIVITY/EXERCISES ARE OBSERVED AT LAUNCH AREAS IC (SITE 7), 2C (SITE 6), 4C (SITE 4), 5C (SITE 2), AND THE TROOP TRAINING AREA WEST OF LAUNCH COMPLEX E (SITE 3).

NEW CONSTRUCTION ACTIVITY IS PRESENT ALONG THE ROAD BETWEEN LAUNCH COMPLEXES E AND H.

25X1D

THE POSSIBLE LAUNCH AREA IN THE SAM LAUNCH COMPLEX, PREVIOUSLY IDENTIFIED ON MISSION IS NOW A CONFIRMED SAM LAUNCH AREA. IT CONSISTS OF 1 LAUNCH SITE (WITH A HEXAGONAL ROAD CONFIGURATION UNDER CONSTRUCTION) CONTAINING AT LEAST 2 PROBABLE LAUNCH POSITIONS, A CENTRAL GUIDANCE/CONTROL AREA, AND A LARGE REVETMENT OF UNIDENTIFIED FUNCTION. THE MISSILE SYSTEM

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AT THE NEW LAUNCH AREA CANNOT BE SPECIFICALLY DETERMINED AT THIS TIME. ALL OTHER SAM FACILITIES OBSERVED SHOW NO SIGNIFICANT CHANGE.

CONSTRUCTION CONTINUES IN THE PROBABLE ASSEMBLY AND CHECKOUT AREA.

THE INTERFEROMETER FACILITY LOCATED Ø.5 NM NORTH OF THE FORMER ROCKET LAUNCH COMPLEX IS STILL UNDER CONSTRUCTION. A CONTROL BUILDING HAS BEEN COMPLETED SINCE MISSION IN THE CENTRAL CONTROL AREA.

o 25X1D

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON PASS

25X1D



25X1A

SARY-SHAGAN ANTIMISSILE TEST CENTER

UR 4602N 07334E

ALL FACILITIES AT THE TEST CENTER ARE COVERED BY FAIR IMAGE QUALITY PHOTOGRAPHY EXCEPT SITE 13, SITE 14, AND POSSIBLE SITE 16.

NO SIGNIFICANT CHANGES ARE OBSERVED SINCE MISSION EXCEPT AS FOLLOWS --

25X1D

25X1D

AMM/SAM LAUNCH AREA 1 -- CONSTRUCTION CONTINUES.

AMM/SAM LAUNCH AREA 2 -- MINOR CONSTRUCTION CONTINUES. TWO VEHICLES/PIECES OF EQUIPMENT ARE POSITIONED IN THE CENTRAL GUIDANCE/CONTROL POSITION OF BOTH LAUNCH SITES. AT THE ELECTRONIC SITE SUPERIMPOSED ON SAM SITE BØ4-2, AN UNIDENTIFIED RADAR (HORIZONTAL REFLECTOR(S)) IS ON A SLIGHTLY ELEVATED PREPARED POSITION ALONG EACH OF THE TWO NEW LOOP ROADS. WORK CONTINUES ON THE GROUND SCAR FOR A PROBABLE CABLE LINE WHICH WILL PROBABLY EXTEND TO LAUNCH AREA B.

25X1D

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PROBABLE LAUNCH AREA A -- MINOR CONSTRUCTION OBSERVED. THE PREVIOUSLY REPORTED SECOND BACKNET RADAR IS NOW POSITIONED ON A MOUND IN THE ELECTRONIC SITE.

PROBABLE LAUNCH AREA B -- A GROUND SCAR (PROBABLY A CABLELINE) AND SEVERAL NEW TRAILS ARE OBSERVED.

LAUNCH COMPLEX A (SITE 2830) -- WORK CONTINUES IN SE SECTOR OF LAUNCH SITE 5. THE ENTIRE AIRSTRIP AT THE COMPLEX IS BEING WIDENED. TWO PARKING APRONS AND SEVERAL TAXIWAYS ARE UNDER CONSTRUCTION.

LAUNCH COMPLEX B (SITE 1814) -- A RELATIVELY LONG LINEAR OBJECT IS OBSERVED CLOSE TO THE POSSIBLE LAUNCH POSITION ON WESTERN LOOP ROAD DAT LAUNCH FACILITY B.

INSTRUMENTATION SITE 2 -- WORK HAS PROGRESSED ON THE ROOF OF LARGE TRIAD BUILDING.

INTERFEROMETER SITE IN THE SUPPORT BASE -- ACTIVITY IS OBSERVED IN VICINITY.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON PASS

25X1A

SHUANG-CHENG-TZU MISSILE TEST CENTER

CH 4107N 10020E

NO SIGNIFICANT CHANGES OBSERVED AT ANY OF THE COMPONENTS OF THE TEST CENTER WITH THE EXCEPTION OF THE FOLLOWING -- AT THE SAM R&D AREA, 3 PIECES OF EQUIPMENT ARE LOCATED IN THE CENTRAL GUIDANCE AREA OF LAUNCH AREA A, AND 1 PIECE OF EQUIPMENT IS LOCATED IN THE HOLD AREA. FIVE UNIDENTIFIED OBJECTS ARE LOCATED NEAR THE

. 13

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MOTOR POOL AT THE SAM HOUSING AND SUPPORT AREA. TWO SMALL BUILDINGS AND AN UNIDENTIFIED STRUCTURE ARE OBSERVED ALONG THE NORTH SIDE OF THE SSM ASSEMBLY AND CHECKOUT AREA. FIVE BUILDINGS AND 2 POSSIBLE BUILDING FOUNDATIONS ARE NOW LOCATED IN AN AREA OF CONSTRUCTION ACTIVITY WEST OF THE SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX. TWO POSSIBLE BUILDING FOUNDATIONS ARE VISIBLE IN THE PREVIOUSLY REPORTED AREA OF NEW ACTIVITY WNW OF THE POSSIBLE PROPELLANT HANDLING AND STORAGE AREA. ACTIVITY AT SHUANG-CHENG-TZU AIRFIELD IS REPORTED UNDER

25X1A

NO NEW SAM ACTIVITY NOTED IN WESTERN 85 PERCENT OF THE 50-NM-RADIUS SEARCH AREA ON PASSES OR IN THE WESTERN NO NEW SAM ACTIVITY NOTES TO SEARCH AREA ON PAS 10 PERCENT OF THE AREA ON PASS OF THE SEARCH AREA NOT COVERED.

REMAINING PORTIONS

25X1D

25X1D

25X1A

MAGADAN SUSPECT MISSILE TEST FACILITY

UR 6000N 15300E

NO SSM OR UNIDENTIFIED ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS OF THE 75-NM SEARCH AREA.

25X1D 1

DNEPROPETROVSK MISSILE DEVELOP PROD CTR UR 4826N Ø3459E

A SMALL SECTION HAS BEEN ADDED TO BUILDING 13, A SECTION HAS BEEN ADDED TO THE WEST END OF BUILDING 8. AND A SMALL BUILDING HAS BEEN ADDED IN THE CENTER OF THE NORTH PRODUCTION AREA. BUILDING 2 IN THE SOUTH PRODUCTION AREA IS COMPLETE. CLOUD SHADOW PRECLUDES DETERMINATION OF ACTIVITY IN THE TEST AREA.

25X1D

TAI-YUAN SOLID PROPELLANT TEST FACILITY CH 3759N 11233E

NO EVIDENCE OF MISSILE PRODUCTION OR RECENT ACTIVITY OBSERVED.

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25X1D

25X1A

PEIPING RKT ENG TEST FAC CHANG-HSIN-TIEN CH 3950N 11608E

THREE BUILDINGS INTERCONNECTED BY PIPELINES AND SEVERAL SMALL STRUCTURES ARE VISIBLE IN THE AREA OF CONTINUING CONSTRUCTION AT THE NORTH END OF THE TEST FACILITY. NO OTHER SIGNIFICANT CONSTRUCTION ACTIVITY OBSERVED.

A SMALL BLAST MARK IS VISIBLE AT A TEST BUILDING IN THE COMPONENTS TEST AREA LOCATED IN THE NW CORNER OF THE FACILITY. STAINS IN THE EFFLUENT SUMPS AND EARTH SCARRING IN THE BLAST PITS OF THE 3 VERTICAL TEST STANDS ARE INDICATIVE OF CONTINUING TEST ACTIVITY.

ENTIRE SEARCH AREA IS COVERED. NORTHERN THIRD IS OBSCURED BY SCATTERED-TO-HEAVY CLOUDS. THE REMAINDER OF THE SEARCH AREA IS COVERED BY GOOD, STEREO PHOTOGRAPHY. NO NEW SAM ACTIVITY OBSERVED IN CLOUD-FREE AREAS.

(SEE ATTACHMENT)

25X1D

PERM ROCKET ENGINE TEST FACILITY

UR 58Ø1N Ø5634E

AREA 75 PERCENT IN CLOUD SHADOW. NO NEW CONSTRUCTION, MISSILES OR MISSILE-RELATED EQUIPMENT OBSERVED.

25X1D

ZHDANOV SUSPECT ANTI-SATELLITE LNCH FAC UR 4705N 03730E

NO ANTI-SATELLITE LAUNCH FACILITY OBSERVED WITHIN 50-NM RADIUS OF ZHDANOV.

25X1D

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25X1A

SEVERODVINSK NAVAL BASE AND SHIPYARD 402 UR 6434N 03949E

ONE FLOATING DOCK OCCUPIED BY A PARTIALLY SHED-COVERED LARGE SS AND ONE UNIDENTIFIED OBJECT REMAIN OUT OF WATER ON UNFLOODED SHALLOW SIDE OF MAIN LAUNCH BASIN.

TWO BARGES REMAIN IN FLOODED SIDE OF MAIN BASIN.

VESSELS PRESENT IN REMAINDER OF YARD/BASE INCLUDE 2

LARGE UNIDENTIFIED SS, 3 LARGE POSSIBLE UNIDENTIFIED

SS, 1 POSSIBLE J-CLASS SSG, 1 POSSIBLE MEDIUM

UNIDENTIFIED SS, 2 PROBABLE DE, 1 POSSIBLE DE, 1

PROBABLE APL, AND SEVERAL UNIDENTIFIED SURFACE VESSELS.

POSSIBLE DOUBLE-HULLED CRAFT UNDER CONSTRUCTION REMAINS
ON SIDE LAUNCHING WAY.

25X1D

GUBA SAYDA SUBHARINE BASE

UR 6915N Ø3321E .

· 25X1D

NO APPARENT CHANGE SINCE MISSION

VESSELS -- 3 POSSIBLE G-CLASS SSB, 2 LARGE UNIDENTIFIED SS, AND 5 UNIDENTIFIED AUXILIARIES.

25X1D

GUBA OLENYA SUBMARINE BASE

UR 6913N Ø3323E

NO MISSILES OR RELATED EQUIPMENT, NEW CONSTRUCTION, CAMOUFLAGE OR CONCEALMENT OBSERVED.

VESSELS -- 11 MEDIUM SS.

25X1D -

POLYARNYY NAVAL BASE

UR 6912N Ø3328E

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

25X1D

25X1D

VESSELS -- AT LEAST 10 POSSIBLE SS AND 7 SURFACE VESSELS IN SHADOW OF HIGH EMBANKMENT.

25X1D

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25X1A

GUBA LITSA SUBMARINE BASE

UR 6926N Ø3224E

25X1D

TWO BARRACKS HAVE BEEN CONSTRUCTED IN THE SOUTH AREA SINCE MISSION TWO ANTI-SUBMARINE NETS ARE NEWLY IDENTIFIED AT THE ENTRANCE TO GUBA LITSA.

VESSELS -- 1 POSSIBLE E-CLASS SSGN, 7 PROBABLE N-CLASS SSN, 6 LARGE UNIDENTIFIED SS, 2 POSSIBLE LARGE UNIDENTIFIED SS, 1 PROBABLE DON-CLASS AUXILIARY, AND SEVERAL SMALL CRAFT.

25X1D

GUBA LITSA NAVAL MISSILE STORAGE

UR 6925N Ø3226E

NO CHANGE OBSERVED IN FACILITIES IN STORAGE AREA SINCE

25X1D

MISSION ____

25X1D TWO NEW BARRACKS, 1 POSSIBLE PROCESSING BUILDING, AND SEVERAL STORAGE BUILDINGS HAVE BEEN CONSTRUCTED IN THE BARRACKS/ADMINISTRATIVE AREA SINCE MISSION

25X1D

GUBA URA NAVAL BASE

UR 692ØN Ø3249E

25X1D 25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

N ____

VESSELS -- 18 POSSIBLE W/R-CLASS SS, 1 POSSIBLE ATREK ASL, AND 2 SMALL UNIDENTIFIED SURFACE CRAFT.

25X1D

GUBA PALA NAVAL BASE AND SHIP REPAIR YARD UR 6912N Ø3326E

25X1D THE LARGE NEW BUILDING REPORTED ON MISSION IS COMPLETE AND APPEARS TO BE A FABRICATION BUILDING.

VESSELS -- 1 PROBABLE LARGE SS IN FLOATING DOCK, 1 POSSIBLE MEDIUM SS, AND APPROXIMATELY 7 POSSIBLE SURFACE VESSELS.

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25X1D

25X1A

LENINGRAD AMM/SAM LAUNCH COMPLEXES

UR 5955N Ø3Ø2ØE

THE LENINGRAD NW, SW, AND NE AMM/SAM LAUNCH COMPLEXES ARE NOT COVERED.

NO APPARENT CHANGE OBSERVED AT THE AMM/SAM TRAINING SITE CO-LOCATED WITH LENINGRAD SAM TRAINING FACILITY C-06.

25X9

ONLY EXTREME EAST AND SE PORTIONS OF SEARCH AREA ARE COVERED ON PHOTOGRAPHY.

AMM/SAM LAUNCH FACILITIES, OR NEW POSSIBLE ELECTRONIC FACILITIES ASSOCIATED WITH THE AMM/SAM LAUNCH COMPLEXES OBSERVED.

25X1D

OLENEGORSK DUAL HEN HOUSE-TYPE STRUCTURE UR 6806N 03355E

25X1D

NO APPARENT CHANGE SINCE MISSION NO NEW COMMUNICATIONS OR ELECTRONIC FACILITIES OBSERVED.

25X1D

TALLINN AMM/SAM LAUNCH COMPLEX

UR 5924N Ø2419E

COMPLEX IS CLOUD COVERED.

NO ASSOCIATED ELECTRONIC OR COMMUNICATIONS FACILITIES IDENTIFIED IN CLOUD-FREE PORTIONS OF THE 25-NM SEARCH AREA.

25X1D

CHEREPOVETS AMM/SAM LAUNCH COMPLEX

UR 5906N 03810E

COMPLEX IS CLOUD COVERED.

NO ASSOCIATED ELECTRONIC OR COMMUNICATION FACILITIES IDENTIFIED IN CLOUD-FREE PORTIONS OF THE 50-NM SEARCH

18

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF 17-22 AUG 1965 MISSION 1023-1

TCS-8114Ø/65

AREA.

25X1D

SHATSK FIXED FIELD MRBM SITE 2

UR 5326N Ø2749E

4.5 NM EAST OF SHATSK AND 2.5 NM EAST OF MARINA GORKA MRBM LAUNCH SITE AT 53-26-10N 027-49-30E.

SITE CONSISTS OF 4 ELONGATED LAUNCH POSITIONS IN A DIAMOND PATTERN SITUATED ON AN IRREGULAR ROAD PATTERN IN A WOODED AREA. EACH OF THE LAUNCH POSITIONS CONTAINS A POSSIBLE SMALL UNIDENTIFIED OBJECT. ASSOCIATED LARGE CLEARING CONTAINS 3 POSSIBLE READY TENTS. A SMALL CIRCULAR AREA BETWEEN 2 OF THE LAUNCH POSITIONS ALSO CONTAINS A SMALL UNIDENTIFIED OBJECT. THE AZIMUTHS OF THE LAUNCH POSITIONS CLOSELY APPROXIMATE THE AZIMUTHS OF THE LAUNCH PADS AT MARINA GORKA MRBM LAUNCH SITE. SITE CAN BE NEGATED ON MISSION

25X1D

SKRUNDA DUAL HEN HOUSE-TYPE STRUCTURE

UR 5643N Ø2157E

BONUS 2

3.5 NM NW OF SKRUNDA.

NEWLY OBSERVED HEN HOUSE-TYPE ACTIVITY CONSISTS OF AN OPERATIONS AREA. A POWER SUBSTATION APPROXIMATELY 0.5 NM NE AND A SUPPORT AREA APPROXIMATELY I NM NE.

THE OPERATIONS AREA CONSISTS OF A CENTRAL CONTROL BUILDING AND 2 LINEAR STRUCTURES WHICH FORM A BOWED PATTERN, SIMILAR TO THE DUAL HEN HOUSE-TYPE STRUCTURE NEAR OLENEGORSK, PROBABLY FACING IN A GENERALLY NW THE CENTRAL BUILDING AND LINEAR STRUCTURES APPEAR TO BE EXTERNALLY COMPLETE. MENSURATION AND AZIMUTHS WILL BE REPORTED IN PART 2 OF THE DAK. CONSTRUCTION ACTIVITY WAS NOT PRESENT ON MISSION

25X1D

25X1D

(SEE ATTACHMENT)

25X1D

19

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

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LIEPAJA AMM/SAM LAUNCH COMPLEX

UR 5633N Ø2111E

BONUS 3

4.5 NM ENE OF LIEPAJA AT 56-33-45N 021-11-00E.

PROBABLY SECURED COMPLEX UNDER CONSTRUCTION INCLUDES 3
LAUNCH SITES UNDER CONSTRUCTION, EACH SERVED BY AN
ACCESS ROAD LEADING FROM THE LAUNCH AREA MAIN ROAD, AND
AN ELECTRONIC SITE WITH 3 ELEVATED POSITIONS AND
CLEARINGS FOR TWO ADDITIONAL PROBABLE POSITIONS. A
RECTANGULAR ROAD PATTERN AND A LOOP ROAD EXTEND TO THE
WEST FROM THE LAUNCH AREA MAIN ROAD. A RECTANGULAR
BUILDING IS UNDER CONSTRUCTION WEST OF THE LAUNCH AREA.
A SMALL SUPPORT AREA IS LOCATED ON THE SOUTHERN EDGE OF
THE COMPLEX. THE COMPLEX WAS NOT PRESENT ON MISSION
SOME OF THE COMPLEX SERVICE ROADS

25X1D

WERE PRESENT 20 DAYS LATER ON MISSION

25X1D

(SEE ATTACHMENT)

25X1D

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Air Facilities

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TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

TCS-81140/65 9

AIR FACILITIES

25X1A

CHEPELEVKA AIRFIELD

UR 4947N Ø3Ø26E

NO NEW SPECIAL WEAPONS STORAGE FACILITIES OR CHANGES IN EXISTING FACILITIES OBSERVED.

AIRCRAFT -- 29 BEAR, 1 BEAR/BISON, AND 2 MEDIUM STRAIGHT-WING ON HARDSTANDS AND PARKING APRONS ALONG LOOP TAXIWAY, 4 BEAR AND 1 BEAR/BISON ON TAXIWAYS AND APPROXIMATELY 20 UNIDENTIFIED SMALL SWEPT-WING IN LOADING AREA.

25X1D

ENGELS AIRFIELD

cUR 5129N Ø4611E

AIRCRAFT -- 38 BISON ON MAIN PARKING APRON, 2 BADGER, 1 CAB, 2 LARGE AND 4 SMALL SWEPT-WING FIGHTERS ON PARKING APRON OFF SW END OF RUNWAY, 2 CAB, 2 MEDIUM STRAIGHT-WING, AND 1 SMALL STRAIGHT-WING ON PARKING APRON AT SW END OF RUNWAY, AND 2 POSSIBLE SMALL SWEPT-WING FIGHTERS ON PARKING APRON AT NE END OF RUNWAY.

25X1D

SIAULIAI AIRFIELD

UR 5553N Ø2323E

NO NEW FACILITIES OBSERVED.

AIRCRAFT -- 8 BISON AND 6 SMALL SWEPT-WING ON HARDSTANDS AND PARKING APRONS ALONG LOOP TAXIWAY, 7 LIGHT STRAIGHT-WING, 32 SMALL SWEPT-WING, AND 5 SMALL STRAIGHT-WING ON APRON WEST OF NORTH END OF RUNWAY, AND 7 SMALL SWEPT-WING IN NW MAINTENANCE AREA. NO ASMS OBSERVED.

25X1D

21

TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

TCS-81140/65

25X1A

BARANOVICHI AIRFIELD

UR 53Ø6N Ø26Ø3E

AIRCRAFT -- 19 BLINDER, 15 BADGER, 1 CAB, AND 25 SMALL SWEPT-WING.

25X1D

MINSK/MACHULISHCHE AIRFIELD

*UR 5347N Ø2735E

25X1D

NO APPARENT CHANGE SINCE MISSION

AIRCRAFT -- 18 BLINDER, 4 ADGER, 1 MEDIUM STRAIGHT-WING, AND 27 SMALL SWEPT-WING.

25X1D

MOZDOK AIRFIELD

UR 4347N Ø4436E

25X1D

NO APPARENT CHANGE SINCE MISSION

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AIRCRAFT -- 21 BEAR AND 19 PROBABLE AIR TO SURFACE MISSILES.

25X1D

KALININGRAD/PROVEREN AIRFIELD

UR 5446N Ø2Ø25E

A NEW CONCRETE PARKING APRON HAS BEEN CONSTRUCTED ALONG TAXIWAY BETWEEN EAST AND WEST PARKING APRONS.

NO ELECTRONIC, NUCLEAR OR ASM FACILITIES OBSERVED.

AIRCRAFT -- 20 BLINDER AND 5 BADGER ON WEST PARKING APRON.

25X1D

BELAYA TSERKOV AIRFIELD

UR 4947N Ø3ØØ1E

AIRCRAFT -- 8 BEAR (2 WITHOUT TAIL ASSEMBLIES) AND 50 BADGER ON HARDSTANDS AND GRASS ALONG LOOP TAXIWAY AND 6 BADGER IN MAINTENANCE AREA.

22

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF MISSION 1823-1 17-22 AUG 1965

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25X1D

25X1A

ZHITOMIR/SKOMORKHI AIRFIELD

UR 5010N 02844E

AIRCRAFT -- 29 BADGER, 1 CAB, AND 1 SMALL STRAIGHT-WING ON HARDSTANDS AND GRASS ALONG LOOP TAXIWAY, 3 PROBABLE SMALL DELTA-WING IN MAINTENANCE AREA AT SE END OF FIELD, AND 2 BADGER IN NE MAINTENANCE AREA.

25X1D⁻

NEZHIN AIRFIELD

UR 5105N 03152E

RUNWAY EXTENSION ON THE WSW END APPEARS TO BE IN THE FINAL STAGES OF CONSTRUCTION. NO OTHER CHANGES OBSERVED.

AIRCRAFT -- NONE OBSERVED.

25X1D

GOMEL/PRIBYTKI AIRFIELD

UR 5218N Ø311ØE

IDENTIFICATION ONLY.

25X1D

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TOP SECRET CHESS RUFF

Nuclear Energy

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25X2

Naval Activity/ Ports

TOP SECRET CHESS RUFF MISSION 1023-1

17-22 AUG 1965 .

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NAVAL ACTIVITY/PORTS

25X1A

PECHENGA NAVAL BASE LINAKHAMARI

UR 6939N Ø3122E

- 25X1D

NO APPARENT CHANGE, IN FACILITIES SINCE MISSION

25X1D

VESSELS -- 8 POSSIBLE MEDIUM SS, 11 PROBABLE MSF, 7 PROBABLE PC, AND 3 UNIDENTIFIED VESSELS UNDERWAY **OUTBOUND.**

25X1D

NIKOLAYEV SHIPYARD NOSENKO 444

4657N Ø3159E UR

25X1D 25X1D NO APPARENT CHANGE IN FACILITIES SINCE MISSION NO IDENTIFIABLE SUBMARINE FACILITIES OBSERVED.

VISIBLE DETAILS OF THE 645-FT HULL SUGGEST THAT IT IS A COMBATANT. A TRIANGULAR TOWER MAST IS LOCATED AMID-SHIPS AND A SMALL RECTANGULAR STRUCTURE IS LOCATED AT ABOUT THE NORMAL FORWARD GUN POSITION FOR A VESSEL OF THIS SIZE. THE AFT PORTION OF THE VESSEL IS CLUTTERED WITH PROBABLE TEMPORARY STRUCTURES ASSOCIATED WITH SHIP BUILDING. A SECOND VESSEL OF THE SAME HULL CONFIGURATION AND DIMENSIONS IS UNDER CONSTRUCTION ON THE SAME BUILDING WAY ON WHICH THE FIRST 645-FT HULL WAS BUILT.

VESSELS -- 1 MERCHANT VESSEL ON THE BUILDING WAYS, 2 SMALL MERCHANT SHIPS IN THE FITTING OUT SLIP, 1 LARGE AND 1 SMALL MERCHANT SHIP IN THE BASIN, 1 DNEPR-CLASS AR AND 2 SMALL MERCHANT VESSELS AT THE QUAYS, AND 1 FLOATING DRYDOCK AND 1 SMALL MERCHANT VESSEL AT THE WEST END OF THE YARD.

(SEE ATTACHMENT)

25X1D

4659N Ø32Ø1E NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 UR

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION NO SHORE-BASED SUBMARINE FACILITIES OBSERVED. CLOUD-SHADOW OBSCURES VESSELS ON THE BUILDING WAYS.

25X1D

26

TALENT-KEYHOLE Control System Only

Handle Via

TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

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VESSELS -- 2 DD. 1 PROBABLE DD. 1 PROBABLE DE. 2 LARGE MERCHANT VESSELS, 1 MERCHANT VESSEL IN A FLOATING DRYDOCK, AND 2 UNIDENTIFIED VESSELS.

25X1D

27

TOP SECRET CHESS RUFF

Electronics/
Communications

TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

TCS-81140/65

ELECTRONICS/COMMUNICATIONS

25X1A

4913N Ø2846E c VINNITSA SUSPECT SPACE TRACKING FACILITY UR

25X1D

NO APPARENT CHANGE SINCE MISSION RADAR OBSERVED.

NO

25X1D

KEM PROB TALL KING FACILITY

UR 6457N 3429E

1.5 NM WEST OF KEM.

SINGLY SECURED FACILITY CONTAINS 1 PROBABLE TALL KING ANTENNA, 1 PROBABLE ANTENNA BUILDING, 1 PROBABLE SUPPORT BUILDING, 1 POSSIBLE GENERATOR BUILDING, AND APPROXIMATELY 5 UNIDENTIFIED OBJECTS SCATTERED THROUGHOUT THE FACILITY.

25X1D

28

Complexes

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TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

TCS-81140/65

COMPLEXES

25X1A

PING-HSIANG COMPLEX

_CH 2207N 10646E

TRANSSHIPMENT FACILITY IS FILLED TO 50 PERCENT OF CAPACITY. OBLIQUITY PRECLUDES FURTHER INTERPRETATION.

25X1D

Other Activity

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Handle Yia Talent-Keyhole

Control System Only

TOP SECRET CHESS RUFF MISSION 1023-1 17-22 AUG 1965

TCS-81140/65

OTHER ACTIVITY

25X1A .

BELEV SENSITIVE OPERATIONS COMPLEX

UR 5332N Ø363ØE

A SINGLE RAIL SPUR HAS BEEN EXTENDED FROM THE RAIL FACILITY INTO THE OPERATIONS AREA. THE SPUR TERMINATES ALONGSIDE A LOOP ROAD AND IS THE PROBABLE FUTURE LOCATION OF THE BRIDGE CRANE.

25X1D

25X1D

BUNKER 1, FIRST OBSERVED ON IN A VERY EARLY STAGE OF CONSTRUCTION. BUNKER 2, ALSO FIRST OBSERVED ON IS CLOUD COVERED. BUNKER 3, AN ETA BUNKER UNDER CONSTRUCTION IS NEWLY IDENTIFIED AND BUNKER 4, NEWLY IDENTIFIED, IS ALSO IN AN EARLY STAGE OF CONSTRUCTION.

(SEE ATTACHMENT)

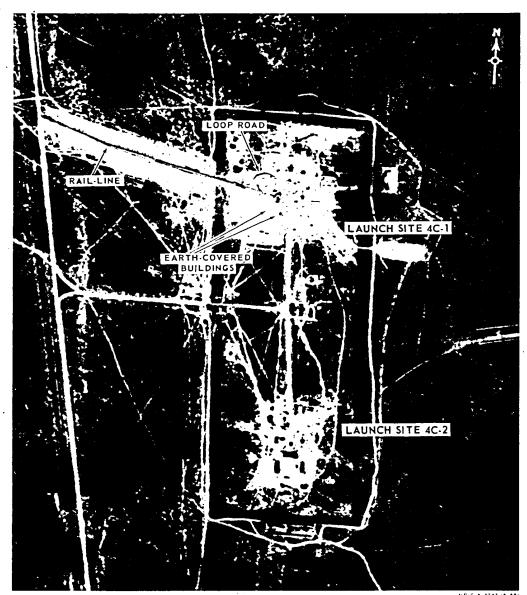
25X1D

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TOP SECRET CHESS RUFF

Attachments

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LAUNCH AREA 4C, KAPUSTIN YAR VLADIMIROVKA MISSILE TEST CENTER, USSR

SAM LAUNCH AREA, KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

Handle Via TALENT-KEYHOLE Control System Only

TOP SECRET CHESS RUFF

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ATTACHMENT 2

TCS-81140 '65



INTERFEROMETER FACILITY, KAPUSTIN YAR VLADIMIROVKA MISSILE TEST CENTER, USSR



TOP SECRET CHESS RUFF

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ATTACHMENT 4

TCS-81140/65

AMM/SAM LAUNCH COMPLEX, LIEPAJA, USSR.

Handle Via TALENT KEYHOLE Control System Only

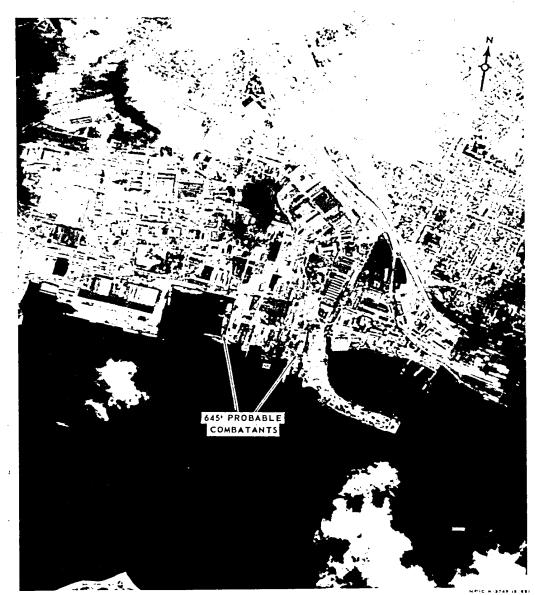
TOP SECRET CHESS RUFF
MISSION 1023-1, 17-22 AUGUST 1965

AUGUST 1965

TCS-81140 65



25X2



NOSENKO SHIPYARD 444, NIKOLAYEV, USSR

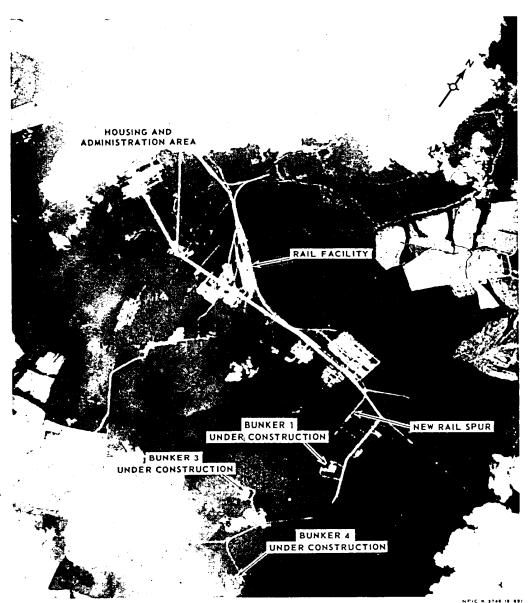
TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

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. ATTACHMENT 10



SENSITIVE OPERATIONS COMPLEX, BELEY, USSR

TOP SECRET CHESS RUFF