basic imagery interpretation report

Kuybyshev Missile and Aircraft Components Plant 207 (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

25X1

USSR

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RCA-09/0035/79

JANUARY 1980 25X1

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Kuybyshev Missile and Aircraft Components Plant 207					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	53-18-20N 050-17-43E				

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MAP REFERENCE

DMA Topographic Center. Series N902, ed 1, Aug 74, scale 1:25,000 (SECRET)

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

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ABSTRACT

1. (TSR) This report describes activity observed at Kuybyshev Missile and Aircraft Components Plant 207 in the USSR from the reporting period for this report. It also describes a probable explosives-forming facility which is associated with the components plant. The report updates information contained in the previous NPIC report on this plant, dated January 1971.

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2. (TSR) Rocket motor casings for various missile propulsion systems, including the SS-N-7 booster and sustainer and probably the SA-5 booster, are produced at Kuybyshev Missile and Aircraft Components Plant 207. Although these components have not been identified on imagery, shipping crates for the motor casings have been identified on imagery of the plant.

3. (TSR) Construction activity was minimal during the reporting period, except for the completion of a fabrication/assembly building and an associated administration/engineering building. Future plant expansion is evidenced by the construction of a security wall adjacent to the eastern wall of the plant.

4. (U) This report includes a location map, seven annotated photographs, and two tables.

INTRODUCTION

5. (TSR) Kuybyshev Missile and Aircraft Components Plant 207 (Figures 1 and 2 and Table 1) is approximately 7 nautical miles north-northeast of the center of Kuybyshev. The plant is in the northernmost part of the city's large, built-up area. It is connected by a major roadway to the center of the city and is served by a major rail line. Kuybyshev Plant 207 is wall and fence secured with three personnel entrances and one rail line entrance.

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6. [redacted] Since 1961, components for surface-to-surface and surface-to-air naval missile systems have been produced at Kuybyshev 207.[1] Subsequently, the plant has also been involved in the production of components for SAMs, AAMs, and several aircraft.[2–5] [redacted] 25X1
[redacted] 25X1
[5] Like most military production plants in the Soviet Union, however, some civilian products are produced at Kuybyshev 207.

[redacted] 25X1

Table 1.
Construction Activity at Kuybyshev Missile and Aircraft Components Plant 207, [redacted] 25X1

Keyed to Figure 2

This table in its entirety is classified TOP SECRET RUFF

Item*	Probable Function	Dimensions (m) L	W	H	Floorspace** (sq m)	Construction Status Ucon	Complete	Comments
12	Warehouse							
a	Warehouse	32	17	9	544			
b	Admin	17	10	11	510			3 stories
18	Shop/assem							
a	Shop	58	11	8	638			
25a	Shop	31	13	5	403			
44a	Warehouse	85	19	12	1,615			
b	Admin	21	12	10	756			3 stories
56	Substation bldg				721			Substation operational date, [redacted] 25X1
a	Sec 1	31	9	5	(279)			
b	Sec 2	34	13	6	(442)			
57	Processing/stor				1,080			
a	Processing/stor	24	18	9	(432)			
b	Admin	18	12	11	(648)			3 stories
58	Admin/engr				636			
a	Engr	33	12	13	(396)			
b	Admin	10	3	15	(120)			4 stories
c	Admin	10	3	15	(120)			4 stories
59	Support	22	7	4	154			
60	Fab/assem				10,615			
a	Sec 1	193	31	24	(5,983)			
b	Sec 2	193	24	17	(4,632)			
61	Admin/engr				6,272			
a	Sec 1	67	16	13	(4,288)			4 stories
b	Sec 2	31	16	15	(1,984)			4 stories
62	Support	30	6	4	180			
63	Admin				3,160			
a	Sec 1	50	14	15	(2,800)			4 stories
b	Sec 2	9	5	16	(180)			4 stories
c	Sec 3	9	5	16	(180)			4 stories
64	Support	10	9	4	90			
65	Stor	24	13	2	312			
66	Stor				190			Complete when first observed
a	Sec 1	12	10	2	(120)			
b	Sec 2	10	7	2	(70)			
67	Shop	30	15	10	450			
Floorspace added					28,326			
Floorspace razed					1,835			
Total current floorspace					147,729			

*Numbering sequence is a continuation of the numbering system in Table 1 of the updated report [redacted] 25X1

**Numbers in parenthesis are not included in total floorspace.

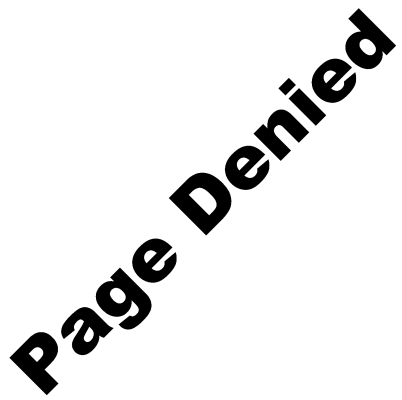

Table 2.
Selected Crates at Kuybyshev Plant 207

Keyed to Figure 3

This table in its entirety is classified TOP SECRET RUFF

Crate Dimensions*	Remarks	Approximate Number Currently Observed**
A	Prob SA-5 booster casing crate; top divided into 4 nearly square sections	55
B	Dark toned with light-toned outline	15
C	Light toned with 5 bands around width of crate	45
D	Top divided into 4 nearly square sections	25
E	SS-N-7 sustainer casing crate; dark toned with light-toned outline	10
F	SS-N-7 twin-booster casing crate; dark toned with light-toned outline & line along center	10
G	Top divided into 3 nearly square sections	20
H	Dark toned with light-toned outline	15
I	Top divided into 2 uneven sections	25
J	Dark toned	30
K	Top divided into 3 nearly square sections	40
L	Light toned	30

*Dimensions in meters

**As of [redacted] the cutoff date for this report

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BASIC DESCRIPTION

Production

8. [redacted] Component parts for a large number of missile and aircraft systems are produced at Kuybyshev 207. This is evidenced by the large variety of relatively small-sized crates observed at the plant. Very few component parts are seen at the plant, and none have been identified. [redacted] at Kuybyshev 207.[1]

9. [redacted] Approximately 20 different crates are produced in varying numbers at the crate shops at the northern end of the plant (Figure 3). The dimensions and distinguishing features of some of the more numerous crates are listed in Table 2. The majority of these crates are less than 5 meters long and are flat roofed. The size of the crate and the configuration of its top are the only distinguishing features. The crates are seen almost exclusively in the crate shops and transshipment areas of the plant. Most of the crates have not been identified with particular missile or aircraft systems. Since the plant has a motor casing production capability,[1] many of the crates may be shipping containers for rocket motor casings, either metal or filament wound. Additionally, similar items—such as canisters, storage tanks, or wing and ventral fuel tanks for aircraft—may be produced at the plant.

10. [redacted] Motor casings for the SS-N-2, SS-N-3 and SS-N-7 naval cruise missiles, the SA-N-3,[1] the SA-2[2] and the AA-2,[3] were produced at Kuybyshev 207 in the mid-to-late 1960s. Since 1970, parts—possibly for SU-17 aircraft and MI-24 helicopters,[4] and motor casings for article 409, a solid propellant air-launched missile[5]—have been

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produced at the plant. Work on products noted during the late 1960s was evidently continuing. The wide variety of components in production at Kuybyshev 207 indicates that, unlike many missile and aircraft components plants, the plant is associated with various missile and aircraft designers.

11. [redacted] Crates for the SS-N-7 naval cruise missile booster and sustainer motor casings have been identified at Kuybyshev 207. A [redacted] crate may contain casings for the twin boosters which the SS-N-7 missile employs. The top of this crate is divided lengthwise by a light-toned line along the center, suggesting that two compartments are inside the crate. A [redacted] crate, which may contain the SS-N-7 sustainer motor casing, has also been identified. This crate is dark toned and appears to have a light-toned outline. Crates similar in size and configuration to these two crates have been observed at SS-N-7 production and deployment areas.[6] The number of these crates seen at Kuybyshev 207 is consistent with the annual production rate established for the SS-N-7 missile.

[redacted]

12. (TSR) One of the largest and most numerous of the crates at Kuybyshev 207 is [redacted] The top of the crate is divided into four nearly square sections. This crate has been seen throughout the reporting period and is probably for the SA-5 missile booster casing. The crates at Kuybyshev 207 are similar in size and configuration to SA-5 booster crates observed at Leningrad Guided Missile Production Plant 458 [redacted] Casings produced at Kuybyshev 207 are most likely shipped to a solid motor production facility or an explosives-loading facility to be filled, then shipped to a final assembly plant. Leningrad 458 is a final assembly facility for the SA-5 missile. Between 40 and 70 probable SA-5 booster motor casing crates are seen at Kuybyshev 207.

13. (TSR) A new type of crate, [redacted] has been seen since May 1979 (Figure 4). The crate is light toned and has five bands around its width. It is the only crate which is produced at a new crate production area at the southern end of the plant where an arch-roofed building has been constructed. The presence of the new crates indicates that a new component, which is as yet unidentified, is being produced at the plant.

14. (TSR) Probable handling dollies or crate bases for shipping motors, motor casings, or missiles have been seen at the plant in the transshipment areas since August 1973 (Figure 5). The large number observed indicates that they are produced at Kuybyshev 207. The dollies/bases are [redacted] long overall and [redacted] A support point is [redacted] from each end of the dolly/base. The dollies/bases do not appear to be associated with any crate at the plant. Fluctuations in the number of these dollies/bases and their position in the transshipment facilities suggest that they are shipped out in bulk without being mated with a crate at this plant.

15. (TSR) Assorted pieces of equipment have been seen throughout the plant. A probable handling device (Figure 5) was seen near a rail line in the plant in May 1977. The unique configuration of the device suggests that it serves a special purpose. Similar equipment was seen at Orenburg Guided Missile Plant 47 [redacted] in April 1975 and at Perm Munitions and Chemical Combine K. Kirov 98 [redacted] since 1978. 25X1 25X1 25X1 25X1

16. (TSR) An unidentified plug-shaped object, [redacted] diameter raised-center section, is usually seen at Kuybyshev 207. The overall height of the object is [redacted] and it has been observed in several areas of the plant. 25X1 25X1 25X1

17. (TSR) A large-diameter, light-toned storage tank has been at the plant since October 1976. The tank is [redacted] in diameter. It has been seen only in the south-central portion of the plant in the vicinity of the horizontal tank storage area. The tank may eventually be installed in this area but apparently has not been used for almost three years. 25X1 25X1

18. (TSR) Various metallic objects have been observed in a shop area on the east side of the plant (Figure 6). In May 1977, several irregularly tapered conical and funnel-shaped objects were in this area. The funnel-shaped objects have been seen consistently since 1977. The objects are all [redacted] meters in length. They are probably used in a production process at the plant. Assorted rings and possible templates were also observed in this area. 25X1 25X1 25X1

Construction 25X1

19. (TSR) A total of 28,326 square meters of floorspace (Table 1) was added to the plant during this reporting period, and 1,835 square meters of floorspace were razed for a current overall floorspace total of 147,729 square meters. The floorspace which was razed had been used for transshipping activities. 25X1 25X1

20. (TSR) A new fabrication/assembly building (item 60, Figure 2) and an associated administration/engineering building (item 61) were completed during this period. The fabrication/assembly building was first seen under construction in August 1969 and appeared to be complete in August 1973. The building contains 10,615 square meters of production floorspace. It is one of the smaller of the seven fabrication/assembly buildings at the plant which range in size from 6,404 square meters to 17,210 square meters of floorspace. A new forced-draft cooling tower, a small support building (item 59), and a probable support building under construction are near the new fabrication/-assembly building. 25X1 25X1 25X1

21. (TSR) The associated administration/engineering building was complete by December 1976. It contains 6,272 square meters of floorspace and is the only building in the plant with a large amount of engineering space closely associated with a production building. The fabrication/as- 25X1 25X1 25X1

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sembly building and the administration/engineering building constituted the major construction during this nine-year period. Footings have been poured in the northern part of the plant for a probable new shop/assembly building.

22. (TSR) Future plant expansion is evidenced by the construction of a security wall around an area adjacent to the eastern wall of the plant. When the wall is complete, it will enclose an area of 19 acres, thereby increasing the area of the plant by approximately 15 percent. The wall, which currently separates this area from the plant, will probably be removed either upon completion of the new security wall or upon completion of construction within the area. Expansion of this magnitude indicates that production of additional components will occur at the plant.

23. (TSR) A possible waste treatment or liquids processing and storage facility (item 57, Figure 2) is the only facility presently in the newly secured area described in paragraph 22. The facility consists of a probable processing building, two buried cylindrical tanks, and a ventilated underground storage or equipment area. The probable processing building is connected by aboveground pipelines and underground feedlines or cables to the steamplant at Kuybyshev 207.

24. (TSR) Several services were expanded during the reporting period. An electrical substation, occupying 1.6 acres of land at the northernmost end of the plant, appeared to be operational by February 1975. This new substation probably serves the plant exclusively, while the large substation adjacent to the south-central part of the plant supplies power both to the plant and to the surrounding Kuybyshev area. Rail lines within the plant were extended and a traveling gantry crane was erected in the main transshipment area to facilitate increased materials handling and transshipping activities. Steamlines were installed to supply the new fabrication/assembly building, and footings have been poured to support steamlines which will serve the probable shop/assembly building under construction.

Probable Explosives-Forming Facility

25. ([redacted] A probable explosives-forming facility (Figure 7) is just south of the main plant area of Kuybyshev 207. This facility has remained virtually unchanged over the past 12 years. It is connected by road to the plant. Because crates identical to those produced at the plant have been seen at this facility, it is evidently associated with Kuybyshev 207. Dome end caps for motor casings produced at the plant may be formed at this facility. 25X1

26. (TSR) The facility is wall and fence secured and occupies approximately 7 acres of land. It consists of a guardhouse, four one-story support buildings, two earth-mounded buildings, and a probable explosives-forming pit area (Figure 8). The probable explosives-forming pit area is similar to explosives-forming pit areas at Kazan Missile Propulsion Research and Development Facility [redacted] and Voronezh Rocket Engine Test Facility ([redacted] 25X1 25X1

27. (TSR) The pit area at Kuybyshev is partially wall secured and contains a probable control building, a small support building, a probable explosives-forming pit, overhead conduits, and a crane boom over the pit. The pit is [redacted] 25X1 meters in inner diameter and [redacted] in outer 25X1 diameter. A [redacted] cover, which appears to be hinged to the outer rim of the pit, is usually seen open. Very little activity has been observed around the pit, and no domes or forms have been identified. 25X1

REFERENCES

IMAGERY

(TSR) All applicable KEYHOLE imagery acquired from [redacted] 25X1
[redacted] the information cutoff date for this report, was used in the preparation of this report. 25X1

MAPS OR CHARTS

DMA Topographic Center. Series N902, ed 1, Aug 74, scale 1:25,000 (SECRET)

DOCUMENTS

1. NPIC. [redacted] RCA-09/0029/71, *Kuybyshev Aircraft Plant 207,* Jan 71 (TOP SECRET [redacted] 25X1
   Discussion and Evaluation SC-05856/70 (TOP SECRET [redacted] 25X1
2. NSA. 3/0/DACE-RUGM/R40-69, Sep 69 (TOP SECRET [redacted] 25X1
3. NSA. 3/0/DACE-RUGM/R20-68, *Unidentified Organizations in Bryansk, Moscow and Kovrov Concerned with Components for Machine IIT122,* Apr 68 (TOP SECRET [redacted] 25X1
4. NSA. 3/AA/DACE/RUE/C8-73, 1973 (TOP SECRET [redacted] 25X1
5. NSA. K/00/2841-73 (RUC) Nov 73 (TOP SECRET [redacted] 25X1
6. NISC. NISC Memorandum, *Analysis of SS-N-7 and SS-N-9 Weapons Systems,* Apr 77 (TOP SECRET [redacted] 25X1

RELATED DOCUMENT

NPIC. [redacted] BCA-09/0018/70, *Kuybyshev Aircraft Plant 207,* Nov 69 (TOP SECRET [redacted] 25X1

REQUIREMENT

COMIREX J02
Project 290068DJ

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted] Soviet 25X1
Strategic Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1