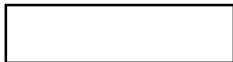




**BASIC IMAGERY  
INTERPRETATION  
REPORT**

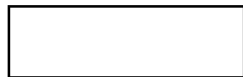
**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**IVANKOVSKIY GUIDED MISSILE PLANT**



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**DEPLOYED AMM FACILITIES  
USSR**



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**DECLASS REVIEW by NIMA/DOD**

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INSTALLATION OR ACTIVITY NAME <b>Ivankovskiy Guided Missile Plant</b>		COUNTRY <b>UR</b>
UTM COORDINATES <b>NA</b>	GEOGRAPHIC COORDINATES <b>56-45-15N 037-07-12E</b>	NIETB NO.
MAP REFERENCE <b>ACIC. USATC 200, Sheet 0154-22, scale 1:200,000</b>		
NEGATION DATE (if required) <b>NA</b>		

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### ABSTRACT

1. The Ivankovskiy Guided Missile Plant consists of assembly buildings, shop and engineering facilities, as well as warehouses, support structures, and a small propulsion test facility.
2. The identification of probable KITCHEN (ASM) crates indicates that the plant is producing air-to-surface missiles.
3. The plant contains a larger variety of laboratory and testing buildings than other known producers of air-to-surface missiles and aerodynamic vehicles. This photographic evidence tends to support a research and development role for the plant. Recent expansion of engineering floorspace may indicate an increasing trend toward more design and development work at the plant. The plant has 55 structures, containing 128,650.0 square meters (1,384,821 square feet) of floorspace.
4. This report provides a basic description of the facilities at the guided missile plant, including chronological development, probable functions, dimensions, and related data for most of the buildings and structures in the plant. The more significant items are discussed in detail.
5. This report is based on photography taken from [redacted] and contains a location map, a photograph, a line drawing, and two tables.

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### INTRODUCTION

6. The Ivankovskiy Guided Missile Plant is situated on the western side of the town of Ivankoyo on the bank of the Ivankoyskoye reservoir (Figure 1). The plant is close to the confluence of the Volga River and the Moscow canal. Moscow is approximately 60 nautical miles (nm) south-southeast of the plant.
7. The plant is reported to be primarily a research and development installation. It was involved in seaplane production during the early part of World War II. From the end of World War II until at least 1952, the plant was one of the centers utilized for research and development of jet and rocket powered aircraft and horizontal flight missiles. Research and development work was also carried out on fuels, engines, and navigational equipment.<sup>1</sup>

### BASIC DESCRIPTION

8. The Ivankovskiy Guided Missile Plant is secured by a wall and consists of 55 diverse structures. The plant occupies approximately 200 acres of flat terrain and contains [redacted] of floorspace, including assembly buildings, shop and engineering buildings, warehouses, various support structures, and testing facilities (Figure 2). The probable functions, dimensions, and related data for all structures at the plant are provided in the table associated with Figure 3.
9. Approximately 35 percent of the available floorspace in this plant was constructed before or during World War II, when the plant served as a seaplane production facility. An

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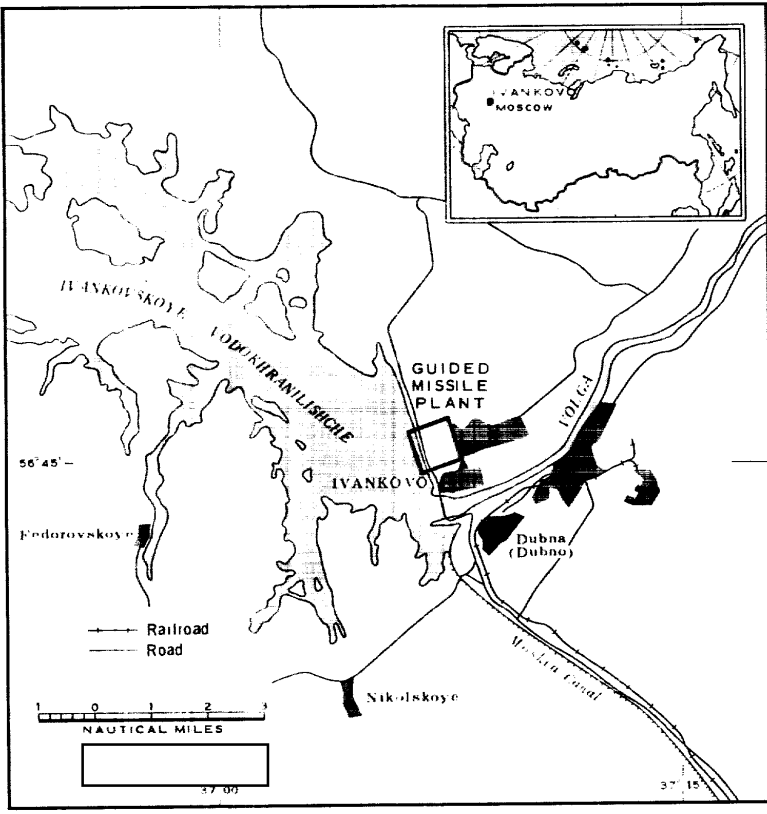


FIGURE 1. LOCATION OF IVANKOVSKIY GUIDED MISSILE PLANT

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additional 33 percent was added after World War II and prior to the first usable [redacted] coverage obtained in [redacted]. The remaining 22 percent was completed between [redacted] [redacted] (see Table 1).

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10. The largest and most complex structure in the guided missile plant is the multisectional shop and final assembly building (item 21, Figure 3). For discussion, this building has been subdivided into probable functional areas. Seventy-eight percent of the building was complete in 1942, including sections B-E. Section A was constructed sometime prior to 1962. Section B is a long, narrow, multistory administration and engineering bay common to most buildings of this type in the Soviet Union. Sections A and C-D, which account for most of the floorspace of this building, appear to be devoted to the machining of parts and the subassembly of major components probably supplied from section D.

11. The guided missile plant also contains a mockup and prototype assembly building (item 14, Figure 3). In any research and development plant, considerable floorspace is utilized for initial mockup and prototype production of a missile planned for production. This initial effort is usually carried out in separate shop/assembly type buildings near engineering facilities. Item 14 includes assembly, shop, and technical support sections. It is also situated adjacent to item 11, a large engineering building.

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12. The new five-story engineering building (item 11) has accounted for the largest single increase in floorspace at the plant since [redacted]. The floorspace in this building, [redacted] is significantly greater than all the previously existing (pre-[redacted] engineering floorspace. This new construction may indicate a trend toward more design and development work at the plant.

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13. The plant contains a larger variety of laboratory and testing buildings than other known producers of air-to-surface missiles and aerodynamic vehicles. Facilities are present for probable propulsion testing, possible aerodynamic testing, as well as for possible laboratory test buildings. The probable propulsion test building (item 45, Figure 3) consists of a two-bay structure and a paved exhaust deflector area. The southern-most bay is

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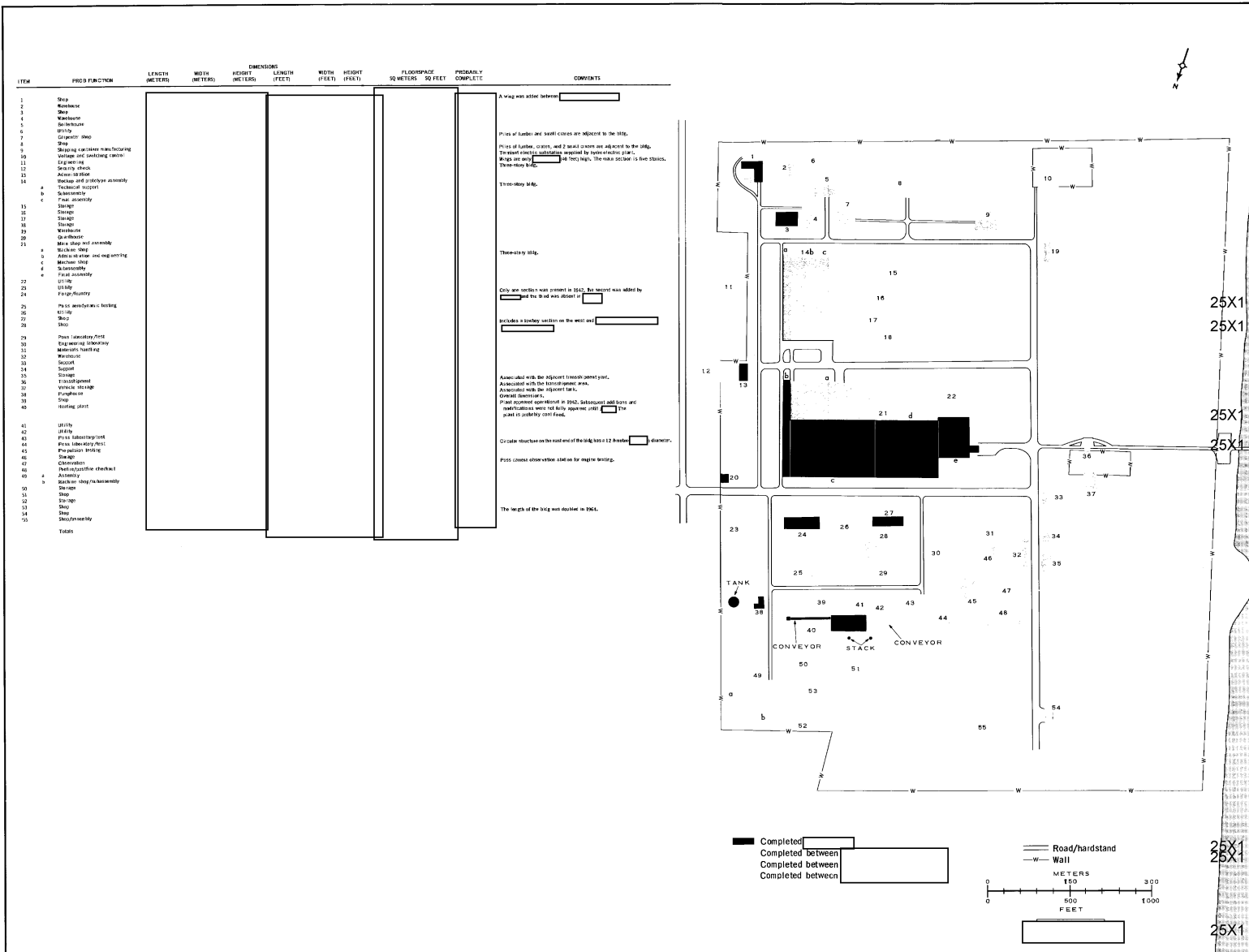


FIGURE 3. LAYOUT OF IVANKOVSKIY GUIDED MISSILE PLANT

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probably used for control and instrumentation while the northern bay, which faces the deflector, is used for testing. Each bay has a raised portion in the center, possibly for ventilation. Items 30 and 48, Figure 3, may provide engineering laboratory space as well as prefire/postfire checkout support for the propulsion testing operations. The possible aerodynamic testing building (item 25, Figure 3) consists of a small compressor bay and a testing section. It appears capable of carrying out the aerodynamic testing of small airframe models.

14. The possible laboratory/testing buildings (items 29, 43, and 44, Figure 3) are possibly used for propellants research and sampling.

**Chronological Development**

15. Significant expansion took place in the plant during the 1950s and 1960s, similar to the rapid development that took place in most Soviet missile production and test facilities. Incremental increases and distribution of the floorspace at the plant from [ ] through [ ] are shown in Table 1. The chronology of construction suggests that the plant was at least partially operational shortly after World War II, since a significant amount of floorspace was obtained from the former seaplane production plant.<sup>1</sup>

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**Current Status and Production Activity**

16. Photographic evidence indicates that the Ivankovskiy Guided Missile Plant is relatively active. New construction and crates and shipping containers were observed in the plant area. The construction activity consists of the completion of items 11, 49, and 55 devoted to engineering and shop/assembly floorspace. Production activity observed is confined to probable KITCHEN (ASM) crates from [ ] (see inset Figure 2) through [ ] Twenty-five to 30 unidentified crates were observed in the transshipment yard adjacent to item 36 in [ ]

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17. This recent expansion of floorspace is devoted primarily to engineering. The expansion and the observed probable KITCHEN (ASM) crates and unidentified crates indicate that the Ivankovskiy Guided Missile Plant has an important role in the overall Soviet air-to-surface missile development effort.

**Essential Services**

18. Primary transportation for the plant is by water, although the plant is road served and rail transportation is available nearby on the south side of the Volga River. There is a small dock on the west side of the plant, providing easy transportation of materials in and out of the plant. The primary source of electric power is the Ivankovo Hydropower Plant south of the guided missile plant. Heat and water are apparently provided on site.

Table 1. Incremental Increases and Distribution of Floorspace at Ivankovskiy Guided Missile Plant

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Functional Operation	Present Square Meters	Dates During Which Floorspace Was Added						Distribution Totals
		Square Feet	Square Meters	Square Feet	Square Meters	Square Feet	Square Meters	

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[Empty table body]

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REFERENCES (Continued)



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MAPS OR CHARTS

ACIC. USATC 200, Sheet 0154-22, scale 1:200,000

DOCUMENT

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- 1. AIIR - [Redacted] *Aircraft Plant in Podberezye*, 25 Apr 56 (CONFIDENTIAL)

REQUIREMENT

COMIREX J02  
NPIC Project 221329

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"Latest usable photography as of [Redacted]"

[Redacted]

[Redacted]

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