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UNIDENTIFIED SOVIET CONSTRUCTION COMPLEX NEAR MOZHAYSK

Lat. 55°25'E - Long. 35°46'E

PART A

Photo Interpretation Description of the Site

1. General

A large uncompleted Soviet construction complex approximately 1 3/4 miles by 1 3/4 miles square and covering 3 square miles of area is located 75 miles WSW of Moscow along the Moscow-Smolensk Road. It was first observed by U. S. forces [Redacted] No previous intelligence reports cover this location.

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2. Characteristics

(1) A Maximum Security fenced area with outer double entry gates and inner security gate and guard house situated on the north side. Located in a wooded area with limited cuttings around component installations to provide screening against ground observation. The terrain is glacial in nature with 75 to 100 feet of relief. Total number of structures is 347 plus miscellaneous small outbuildings.

Breakdown:

VIP quarters and ADMINISTRATION Buildings	205
Construction buildings and slave labor quarters	105
Operational area structures	37

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(2) Major Components

a. Operational Area

1 Large dome-shaped covered construction 83' high and 190' in diameter (Graphics IV-5, I and II) is situated in an excavation 25' deep. Has a large cap 18' thick and 54' in diameter. With the adjacent drive-through service structure and ramp type connection the total installation is some 500' long. (See Graphics V and VI.)

1 Large installation similar to the above is located 1 kilometer to the North (Graphic IV-4) and represents an earlier construction stage without the dome-shaped covering. Beneath the cap is a circular vertical shaft with 24' inside diameter and an attached T-shaped internal column. The numerous dimensions and heavy internal concrete construction details of this installation are shown on Graphic II.

3 Major underground construction units each 95' x 120' are shown on Graphic IV 1, 2, 3. Each represents a progressive stage of construction with No. 3 having already been covered over with some 20' of mound material. Tops of these units are slightly above ground before being covered over and are located beside drive-through service structures with heavy interior concrete walls ranging from 6' to 10' thick. Dimensions and other configurational details are shown in Graphic III.

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Floor space of the smaller buildings in the operational area including many temporary construction buildings amounts to some 30,000 square feet.

b. Housing Area

VIP type quarters shown on Graphic IV-6 total some 69 Duplex units and 58 single units sufficient to accommodate an estimated 196 senior scientific and administrative type personnel. Slave type labor quarters are shown at IV-7 in a walled, fenced, guard tower area and amount to some 125,000 square feet of floor space.

c. Facilities

Visible is an estimated 110 KV or 30 MW power line from the north, sufficient to handle the requirements of a fair sized city, a small power plant and some 10 miles of roads construction in the area.

d. Total Value

The cost of the excavations and construction of the concrete shells and exteriors in this complex is estimated to be \$150,000,000.

e. Locations of other features relative to the Mozhayak Complex:

- 1) River waters available 10 miles NE and 3 miles S
- 2) Railroad siding at Borodino is 5 miles NE
- 3) Rubinka Airfield is 36 miles ENE

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General Photo Interpretation Comment

1. CIA and Military Photo Interpreters have studied this complex and find it to be unique in its combination of unit geometric configurations, pattern layout and size. We have not yet identified an analogous layout to reason from in our experience with foreign or domestic construction complexes.
2. To facilitate analysis of this complex, US Air Force and CIA Photo Interpretation experts have independently translated their stereoscopic examination of small scale aerial photos (1/32,000) into oblique and vertical perspective drawings.
3. These drawings represent a substantial intelligence effort. They agree remarkably well in most details, and are offered for use by experts in other technical disciplines in the ultimate identification and determination of the intelligence significance of this Soviet effort.

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PART B

Discussion of Moshaysk Site

1. The results of these photo interpretations have been under intensive study by the Intelligence Community for some time. Expert consultants are being utilized in the analysis, but to-date no firm conclusions can be drawn as to the purpose of the installation. The most plausible hypotheses involve atomic energy and/or guided missiles implications, but every hypothesis proposed still has significant inconsistencies.

2. It is universally agreed that the installation is unusual (unlike any U.S. or other known Soviet installations), is extensive, and has maximum security. Housing, including numerous VIP quarters, are located within the compound and less than one mile from the two dome shaped structures. The most characteristic feature of the entire installation is the tremendous amounts of concrete in interior as well as exterior walls.



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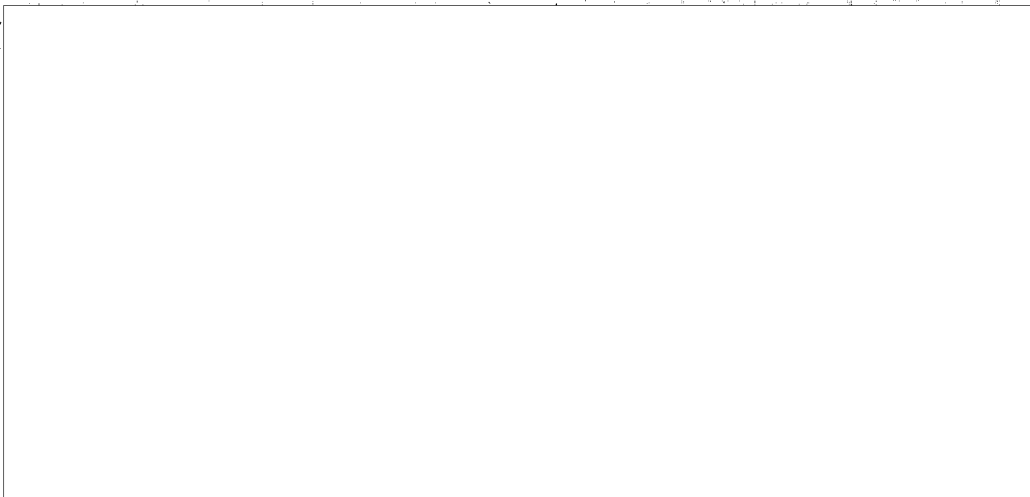
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4. Guided Missiles

The following factors support the hypothesis that this is either an IRBM or an ICBM launching site.

a. Transportation facilities (good roads with large curve radii at site) and access to logistic support (Astrow) are adequate.

b. Storage, check out and handling facilities are of sufficient size to handle IRBM or ICBM and have drive through access.

c. Launching facilities. If the conical caps can be removed, the two dome shaped structures may be blast proof, vertical launchers. Missiles may be brought down ramp from service building to launcher.

d. Location of site for an IRBM could cover the majority of targets in Western Europe, less Spain if 1500 miles range is assumed and for an ICBM most targets in U.S.

Evidence which is inconsistent with this being a long range missile site are the following:

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a. The dome structure has a conical cap which may be a concrete mass 55 feet across and perhaps as much as 18 feet thick. It is not known whether or not this cap is removable for missile launching.

b. The dimensions are marginal for loading a missile greater than about 60 feet. It is not known whether a 60-70 foot or 90-100 foot missile coming into the launching structure from the service building has sufficient clearance to be raised to the vertical position and, with a 100-foot mound around the dome, it does not appear feasible to muzzle load a missile into the structure.

c. There appears to be insufficient space for venting the exhaust gases and facilities for water cooling the launching structure and exhaust ducts appear to be marginal.

d. Close proximity of housing to launching domes is questionable from a safety point of view although desirable for access.

e. The supporting structures with heavy concrete walls serve no apparent purpose for a conventional chemically fueled ballistic missile launching site.

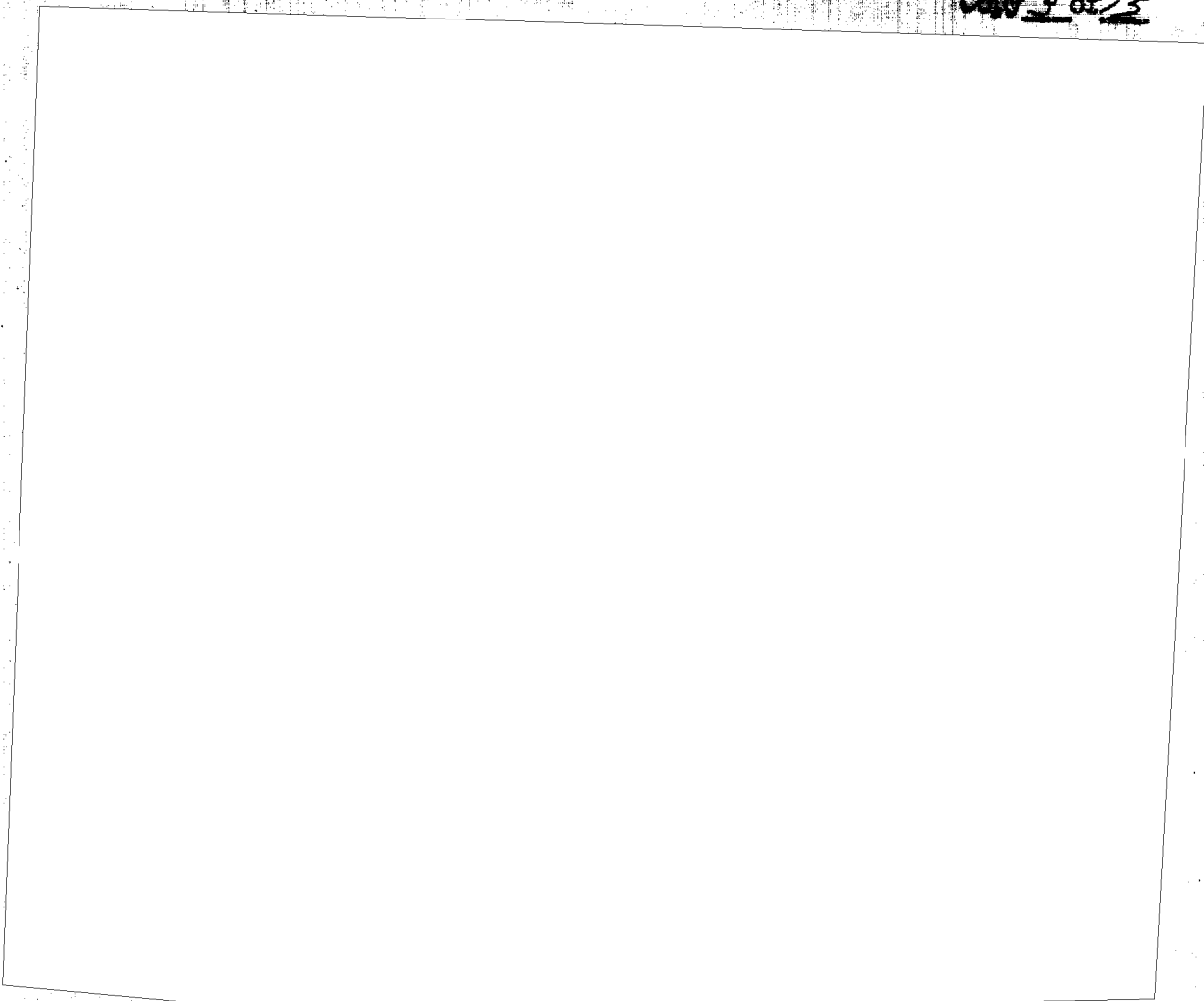
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6. Summary

In summary, the AQUATONE Project has obtained positive evidence of a new Soviet installation, apparently involving maximum security, and of an exceptional character, perhaps involving a technological breakthrough. The exact nature of this installation is still unknown, but it is probably involved in some way with the Soviet atomic energy, guided missile or possibly even nuclear propelled missile programs. All the resources of the community are being utilized to obtain additional intelligence on this site and to determine the purpose of the installation.