

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY Yugoslavia

REPORT

SUBJECT Bratstvo Industrial Complex, Novi Travnik

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THIS IS UNEVALUATED INFORMATION. SOURCE GRADINGS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

Bratstvo Industrial Complex at Novi Travnik,

The following topics are included in the report:

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- 1. General information and background
- 2. Personnel
- 3. Production: Military and Civilian. Military production includes 105-mm howitzer; 155-mm howitzer; Bofors AA gun; "RB" gun; "B-1" 76-mm gun; 60-, 120-, 82- and 50-mm mortars; and tank turrets. Civilian production includes farm tractors, produced under Soviet license.
- 4. Raw material supply sources
- 6. Shipping, rail and highway facilities
- 7. Security and fire-fighting measures
- 8. Motor pool
- 9. Description of buildings.

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Subject: The BRATSTVO factory in Novi Travnik (ex KASAPOVICI) (E 1518/  
4411 N)

1. Introduction:

Military complex for the production of weapons, built after the war and being continuously developed in regard to both buildings, and processing machinery, as well as production.

In 1954 (?) with the absorption of some unspecified unity for production of weapons of the "Red Banner" complex in KRAGUJEVAC, the factory acquired greater importance and became one of the main ones in Yugoslavia.

Besides, this complex also manufactures tractors and various agricultural implements for civilian industry and some undetermined part for the automobile factory in MARIBOR (T.A.M.)

2. Location:

NOTE: In the earlier report about this objective, the factory was located -- due to the use of topographic maps which were not up to date and which were on a rather large scale -- west of NOVI TRAVNIK (KASAPOVICI) in the valley where the PROZNICEVAC River flows, that is, south of the town of DAKOVICI in the area of SREDNJE BRDO.

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Now, without any fear of error, it has been possible, with maps to the scale of one: 50,000 of a recent <sup>e</sup> edition, to establish its exact location -- as follows: This complex is south of NOVI TRAVNIK in the area of MARGETICI, south of RIJEKA GROVNICA which crosses the complex in a covered, concrete canal. [redacted] 50X1-HUM

3. Managing Personnel (Noted):

Military:

a. The director is COL. Sveto PRIJIC, 40 years old, regular artillery officer. He wears either civilian or military clothes.

He has been the manager for about three years and has replaced Col. Micu 50X1-HUM JAUKOVIC, who is a regular artillery officer [redacted]

[redacted]

b. The deputy director and KOS officer is Maj. Boso MILETIC [redacted]

[redacted] and a native of CACAK. He has been at the factory 50X1-HUM for a number of years. He usually wears civilian clothes;

c. KOS officer is Captain First Class BAKIC [redacted] 50X1-HUM

[redacted] He has been at this factory for some time. He almost always wears 50X1-HUM civilian clothes;

d. Eight officers make up the internal military commission which has the <sup>task</sup> ~~post~~ of controlling the parts produced and of authorizing the assembly of weapons.

They always wear the uniform and have their office at the technical 50X1-HUM offices of the complex.

The chief of the commission is Captain First Class Vaso CACANOVIC [redacted]

[redacted] and a regular artillery officer. While the head of the commission 50X1-HUM

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is stationed at the complex, the other members of the group who <sup>have a</sup> ~~are all~~ <sup>lower than</sup> ~~officers below the rank of~~ Captain First Class CACANOVIC, served at the factory for period varying from two to three years;

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e. Other than the said military personnel, [redacted]

their could be other officers at the various units of the complex who could not be identified because they are in civilian clothes.

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Civilian:

a. The technical director is an engineer (name unknown) [redacted]

[redacted] who has already been at the complex for about six years;

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b. The secretary is a lawyer named Svetozar STARCEVIC [redacted]

[redacted]

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c. The engineers are as follows:

- Stefan MOROVIC [redacted]
- Novak MRDIC [redacted]
- Anton SKET [redacted]
- LOBRIC [redacted]
- SRACNIK [redacted]
- Andrija JEVTIC [redacted]
- Zorgan ILIC [redacted]

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4. Employees:

There are about 30 engineers and about 4,000 workers, employees and technicians.

5. Shifts of Work: 28-hour shifts per day with the <sup>ex</sup> ~~exception~~ of the forging unit which works three shifts.

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6. Production data (noted):

A. Military:

105-millimeter howitzers which have the following characteristics are manufactured there:

-- Under Russian license (?);

-- the complex receives the following material for completing these guns: wheels with rubber treads <sup>from an</sup> unspecified Yugoslav factory in BOROVO; aiming devices, <sup>steel</sup> for the gun barrels from West Germany in form of cylinders;

-- the beginning of production and the highest production are as follows: the first proto type was built in 1954, and mass production was begun between 1955 and 1959. In that period, about 16 howitzers per month were manufactured; production was suspended from 1960 to 1961, and from January to August 1962, 48 complete guns were built, but <sup>as of</sup> August 1962, they had still not been mounted;

-- destination of the product is as follows:

1) Yugoslav armed forces: toward the end of 1961, that is before the complex resumed the present cycle of production, about 150 howitzers which constituted the warehouse stock of the previous production were sent to unspecified localities.

They were transported <sup>at night</sup> on trucks with the weapons covered with hoods.

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[redacted] the destination of these howitzers was for the Yugoslav army in as much as these weapons were mounted, unlike the guns which were sent abroad which were taken down and packed in wooden cases;

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2) Through foreign countries: the present production which consists of 48 guns which are now being completed will be sent before the end of 1962 to the SUDAN.

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155/Millimeter Howitzers:



-- production was begun in 1958;

-- amount of production: from 1958 to 1961, the complex built for <sup>4</sup>howitzers which were sent in the first part of 1962 to the proving ground at MIKICI (?) (E 1732/4430 N) for test firing.

The test was successful in as much as the KRAGUJEVAC will begin mass production at the beginning of 1963 of this type of artillery.

After the test firing, the four guns were returned to the complex.

-- the materiel used was identical to that of the 105-MM Howitzer.

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"BOFORS" Anti-aircraft guns which have the following characteristics:

- [redacted] single barrell, mounted on four wheels with rubber tread and equipped with radar for firing; 50X1-HUM

--production was begun in 1958;

--<sup>number</sup>~~amount~~ produced: 4 guns which have not yet been mounted. They will be mounted at a<sup>n</sup> undetermined complex <sup>in</sup> and Belograd<sup>e</sup> which will also test them;

--radar sets <sup>one</sup>~~sets~~ for each gun [redacted] 50X1-HUM

"R. B.":

--beginning of production: This complex has been producing such weapons for a number of years. In 1959 ~~and~~ however, the old type was <sup>abandon</sup> and a new one of an undetermined type was begun.

This complex manufactures for this weapon only the barrell ~~with the~~ handle for carrying it and then it is sent by railroad or highway to the Red Banner complex in KRAGUJEVAC for completion;

--amount produced: the factory produces about 10,000 (?) barrells per year;

--destination of the products: for the Yugoslav armed forces <sup>and</sup> ~~in~~ a considerable number [redacted] The weapons are shipped by/from the complex in KRAGUJEVAC. 50X1-HUM

76-millimeter "B. 1" anti-tank (?) guns:

-- under Russian license (?);

--beginning of production: this cannon ~~before~~ 1950 was built at the Red Banner Complex in KRAGUJEVAC which at that date discontinued producing it and the unit for producing the "B.1." went to the "BRATSTVO" factory which

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started mass production of it;

--amount of production: in 1961, 94 guns were manufactured

In 1962, production was interrupted because the "B.1." license was sold

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This factory however has already begun manufacture of a new "B.1" with undetermined characteristics which will give excellent results and will be mass produced beginning in 1963. At present, the first "prototype" is being completed.

For the year 1963 -- if the test are successful -- the "BRATSTVO" factory will begin mass production of 150 such cannon.

As 60-millimeter mortar with the following characteristics:

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--beginning of production: about 5 years ago;

--production data: this mortar is the most requested weapon by countries which are interested in importing Yugoslav weapons.

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For the year 1962, this complex is to produce <sup>900 - 60-</sup> 900-millimeter mortars which have already been requested by the above countries. To fill these request, the "BRATSTVO" factory has suspended or slowed down productions of other mortars of different caliber.

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120-Millimeter Mortar:

Made under Russian license;

Production started several years ago;

Production data: 70 to 80 pieces were produced in 1961.

Production was suspended in 1962 ~~due~~ to the emphasis put on

60-millimeter mortars.

82-Millimeter Mortar:

Made under Russian license;

Production began several years ago;

Production data: until 1961, the complex produced about 70 of these a year.

Since 1962, production was suspended <sup>due</sup> to the increased demand for 60-millimeter mortars.

50-Millimeter Mortar:



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Production began about 1958;

Production data: in 1961, about 200 pieces were produced.

Since 1962, production has been interrupted to accommodate the requests for 60-millimeter mortars;



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Turrets for Tanks:

*license*

Made under Russian (?). The Turret resembles that of the Russian T-34 tank with the difference that it is from 70 to 80 centimeters wider;



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Production was begun about four years ago;

Production data: The Bratstvo Factory produced, from 1958 to April 1962, four turrets complete with 105 or 120-millimeter cannons whose barrel was about five meters long;

Destination of production: In 1960, a tank chassis came to the plant and one of the four turrets was mounted on it.

This mounting work was finished in April 1962 and the tank was sent about April 1962 to Belgrade where it participated together with 13 other Russian tanks in the May-Day parade. After the military parade, this tank did not return to Bratstvo.

The other three turrets are still at the factory and the work on completing them has not yet been finished.

The chassis of the tank -- judging from unspecified characteristics inasmuch as it was always covered with tarpaulins -- arrived at the complex with its own facilities by the ordinary route from the railroad station in Zenica.

It was sent out by the same means ~~route~~ after work on it was completed.

Yugoslav soldiers were driving the vehicle.

It is not known where the tank was built or from where it came.

The tank had the following weapons:

- 105 or 120-millimeter cannons equipped with a muzzle brake
- a 12.7-millimeter Browning automatic anti-aircraft gun;
- 3 machine guns (2 on the front and one on the back of the

chassis).

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NOTE:

According to hearsay, the machine guns were built at the Red Banner Plant in Kragujevac.

- The production unit is one of the most secret ones of the Bratstvo Plant. About 10 workers who are among the most trusted ones of the factory work there. The managing personnel consists of 2 engineers and 4 technicians whose offices are in Belgrade and they go to the plant from time to time.

Access to this unit is prohibited to workers of this factory who do not work for this unit. A security guard is always at the entrance.

B) CIVILIANS

Agricultural Tractors

Manufactured under Russian license;

Production: The Bratstvo Plant in addition to manufacturing them assembled <sup>them</sup> inasmuch as various parts of these tractors come from other Yugoslav plants; namely:

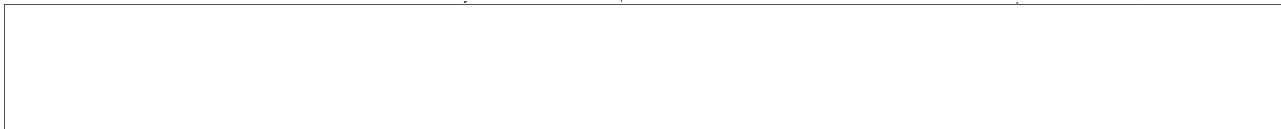
The engine from Rakovica and Famos <sup>[plants]</sup> in Sarajevo;

The chassis come from Sokol and Mostar; and

The track from ~~MLADENOVIC~~ MLADENOVIC;

- About to produce: About 40 per month;

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7. Origin of the Raw Materials for all These Weapons is as Follows:

The wheels with rubber treads come from an unspecified Yugoslav

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factory in Borovo;

- The steel for the gun barrels and the special steel for the  
cannon  and tank turrets, eight millimeters thick

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- The aiming devices, from [marked out];

- Other kinds of steel, from Yugoslav foundries, are as follows:

"FLW" - 14

"FLW" - 52 - hard steel

"FLW" - 56

"ST" - 35

"ST" - 45 - soft steel

The greatest demand however is for hard steel.

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The training of these workers is performed with practical tests in the morning at the unit which produces mortars and with instruction in theory in the afternoon.

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9. Shipping Port for the Products to be Sent Abroad:

Products to be exported are transported on trucks from the factory to the port of Ploce <sup>(E 17-25/43-04N)</sup> where they are loaded onto Yugoslav freighters. Such shipments are almost always made at night and the weapons which have been disassembled are packed in wooden crates.

10. Railroad Spur Track

<sup>A narrow gauge</sup>  
~~The railroad spur is narrow gauge and it is~~ indicated on the maps ~~and used as~~ leading from Travnik to Isakovici and   continuing toward Rastovo <sup>(E 15-21-44-03N)</sup> it has not been in existence for some years.

At present there is a railroad line of narrow gauge linking Travnik to the Bratstvo Plant and it passes by the following towns: Z. St. Bila (E 1526/4411 N), Rankovici (E 1521/4411 N) and Novi Travnik.

11. Road Connections:

- About three years ago, the existing road was asphalted and it was indicated on the map in use as linking the plant to Travnik.

The route of the road is as follows: Travnik - Dolac - Nevica Polje - Stojkovicci - Rankovici and on to the plant.

On the section of the road between Rankovici and the plant, an asphalted road was laid on the route of the former new trail;

Inside the plant complex, the roads connecting the various units are covered with 'Porphyry' <sup>[Crushed granite?]</sup>

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[REDACTED]

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12. Work to Expand the Plant

In July 1962 work <sup>was begun</sup> to expand the forging shop of the plant with the plant's own work force. The building which at present measures about 80 by 40 meters will be enlarged when the work is finished to about 80 by 80 meters. The railroad spur track inside the complex will also go inside the plant to the new wing of the building.

13. The Security Measures are Described as Follows:

- Performed by about 40 guards of the industrial militia with the aid of eight German shepherd dogs;

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- The chief of the guards is a certain Banjac [REDACTED]

- The guards are armed with automatic rifles and Mauser rifles;

- The guard posts are as follows: At the factory entrance is 24 hours a day; patrols around the various units inside the complex; and along the outside enclosure of the complex at night.

- Besides the said personnel there are also probably other detachments ~~at~~ with the specific task of controlling the traffic of persons to the Bratstvo Factory inasmuch as both the trucks which haul material and the automobiles are driven to those places by factory drivers.

The foreigners however who are sent to the factory and who are not nationals of Soviet Bloc or Middle Eastern countries can drive their own automobiles to Novi Travnik but cannot spend the night there <sup>without</sup> ~~if they have not been granted~~ a special authorization.

Therefore in these towns, it is believed that the control of the traffic of individuals is also performed by members of the People's Militia.

[REDACTED]

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Such measures are provided for by about 50 firemen equipped with one fire truck of German manufacture, hand-operated fire extinguishers, and fire hydrants and various water outlets. The firemen have a <sup>station</sup> ~~exercise~~ with their equipment in Novi Travnik.

15. The Complexes Stock of Vehicles is as Follows:

About 20 courier vehicles, about 40 trucks of the Fap, Praga, and Om makes, and about 10 automobiles for the managers.

These vehicles are parked in the garage in Novi Travnik.

The dispensary is equipped only for first aid. A woman doctor named Itana Peleksic  aided by two aid men works there. 50X1-HUM

17. Security Measures are as Follows:

The area of the complex is about 1,000 by 500 meters and is enclosed by a barbed wire fence about two meters <sup>high</sup> ~~wide~~ which is supported by concrete posts.

There are concrete lamp posts along the entire fence at intervals of about 50 meters for night lighting.

The area where the complex is located is irregular and the factory is squeezed between mountainous terrain. To camouflage this complex, poplars and chestnut trees were planted many years ago inside it.

18. Descriptions of the Complex

NOTE: The numbers on this list correspond to the ones on the sketch in enclosure 1 and indicate the various buildings:

- 1) The management is housed in a three-story building about 60 x 25 meters;
- 2) The porter's house is a masonry building about 10 x 10 meters;

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3) Warehouses for Various Equipment  
about  
masonry buildings/40x15 meters with roofs with two eaves;

4) Warehouses for finished weapons parts  
masonry buildings about 40 x 15 meters each with  
double-eave roof;

NOTE: There are loading platforms in front of buildings 3 and 4  
between them and the road.

5) Forging Shops

a) masonry building about 80 x 40 meters and about 12 meters  
tall, equipped with the following:

- 4 air hammers;
- 4 or 5 [drill] presses;
- about 20 gas furnaces [redacted] 50X1-HUM
- ~~one overhead crane~~ *portal crane* mounted on tracks, 5-ton capacity;
- in May 1962, work was begun on installing one  
40-ton air hammer [redacted] As of August 1962, 50X1-HUM  
it had not begun operation;

b) building under construction about 80 x 40 meters. It is  
joined to the one already there ; when finished, it  
will form with unit a) a single building/80 x 80 meters  
The complexes rail line spans the length of the  
building under construction. Construction of the  
project was begun in July 1962 and workers from the  
BRATSVO plant are working there.

6) The Steel Warehouse

- masonry building about 120 x 20 meters;

7) Storage Area for Ferrous Metals

- open area about 150 x 150 meters where a/bridge crane  
10-ton-capacity  
mounted on tracks is located;

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8) Tempering Unit

- for nickel and chrome plating finished parts;
- masonry building about 150 x 20 meters equipped with various electrical furnaces;
- called the "HALA M-1";
- masonry building about 350 x 150 meters (?) about 30 sub-meters tall and/divided into the following:
  - a) small-lathe unit,
  - b) milling unit,
  - c) big-lathe unit,
  - d) assembly unit,
  - e) stamping unit,
  - f) drilling unit for making muzzle breaks and barrels,
  - g) warehouse for replacement parts for industrial machinery,
  - h) emery-stone unit,
  - i) warehouse for various equipment,
  - j) warehouse for finished parts,
  - k) unit which produces turrets for tanks,
  - m) open area.



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There are also 6 bridge cranes (two of 10-ton capacity and 4 of 5-ton capacity);

10) Unit for Producing Tractors and Farm Equipment

- called the HALA M-2 and has demensions identical with the HALA M-1;

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- it is reportedly subdivided into the following:

- a) assembly unit,
- b) unit making industrial manufacturing machinery  
(lathes, milling machines, etc).

- There is no additional information.

11) Unit Finishing Rough /-casted/ Parts

- masonry building about 30 x 20 meters;

12) Unit Producing Gas

- masonry building about 50 x 30 meters and about 20 meters tall;

It is equipped with 3 boilers for producing gas required for central heating and operating ovens; it is derived from coke.

The boilers are from the freighter PARTIZANKA which sank on an unknown date in the Adriatic Sea as the result of a fire.

13) Unit for Processing and Utilizing Gas

- masonry building about 30 x 20 meters and about 20 meters tall. The gas produced in unit 12) comes to this building which in turn distributes it to all units of the complex;-- through underground pipes to the central heating [system] and through aboveground pipes to the furnaces.

14) Machinists' and Technical Offices' Unit

two-story about  
-/masonry building/350 x 150 (?) meters subdivided into

the following:

- a) unit for building manufacturing equipment;  
the complex'es
- b) unit for repairing industrial equipment;
- c) and floor has various technical offices.

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15) Infirmary and Welfare Offices

-masonry building about 15 x 8 meters.

16) Carpenter Shop

-masonry shed about 30 x 20 meters;

17) Firing Range for Testing Weapons

- located about 200 meters from the fence around the factory.

It is enclosed by barbed wire and is about 200 x 100 meters.

The backstop consists of mountainous terrain on the southeastern side of the range.

18) Ammunition Store for Testing Weapons

- there are 2 unidentified buildings located on the northwestern slopes of the mountainous terrain which are enclosed in/by barbed wire.

19) Secondary Entrance

- links the complex with the firing range;

20) Electrical Transformer Station

- unspecified characteristics.

19. Miscellaneous Information:

An emergency airfield is located northeast of Novi Travnik between the towns of Stojkovic (15-21 E x 44-12 N) and Nevica Polje (15-23 E x 44-13 N) between the road linking these towns with the Gornica River.

Both during and after the constructing of the complex, light aircraft, which were bringing persons from Belgrade to visit the complex, landed there.



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