

CENTRAL INTELLIGENCE AGENCY

50X1

50X1-HUM

every day (within 24 hours) also at night.

(b) For the mentioned experiments five tank trucks with a total of 10,000 liters of fuel went from the railroad station to the experimental station and put the fuel into the fuel-tank bunker. The fuel was 98 percent alcohol.

50X1-HUM

(2) (a) For each experiment, 2,000 liters of alcohol were required. Every day there also arrived tank trucks characterized by short compact tank, each containing 1,000 liters. They were painted white and there was a Russian inscription on them viz: "Caution! Liquid Oxygen! Highly inflammable!"

50X1-HUM

(b) The tank trucks showed a red flag. They emptied their content into the tower. The liquid oxygen arrived from Plant no. 456. This liquid oxygen is also needed for the propellant charges. Large quantities of it were also carried from Plant no. 456 to the railroad station and put into tank cars there. These tank cars, two or three of them were on the track at any time, were also painted white, showed a red flag and had the same inscription as the tank trucks. In summer, when the trucks or cars were exposed to the rays of the sun, they were sprinkled by water hoses.

50X1-HUM

(3)

(a) ^{ex} filling the experimental plant and setting the instruments was part of the operation. Later, the engineers withdrew to the safety bunker. The "charge" was electrically ignited. One could then see a yellowish-red darting flame, about 20 meters long, shooting out of the opening of the tower, in most cases obliquely upward, but sometimes also horizontally and obliquely downward. At this ejection, a loud howling sound, lower pitched, but as loud as an air-raid siren, was heard. At night, the PIs were always awakened by that noise in their camp, 1 1/2 km from the place.

(b) The jet of fire lasted 15 to 20 minutes with the same intensity and so did the low-pitched howling sound. After the disappearance of the jet of fire a black tail of vapour was still seen.

(4) As soon as one test had been finished, preparations for another trial were started.

(5) The turf and the trees in a large vicinity of the tower were scorched.

50X1-HUM

(6)

At night the whole surroundings were brightly illuminated. In the day-time also the darting flame could be seen from a great distance.

SECRET / CONTROL / USE OFFICIALS ONLY

50X1

SECRET/CONTROL/US EYES ONLY

CENTRAL INTELLIGENCE AGENCY

50X1-HUM

50X1

(7) The German chief engineer once fired a V-2 missile from the experimental station as far as the White Sea [redacted] (he was in the camp at that time but did not witness the event). For this, allegedly very accurate shot, the engineer was granted a reward of 3,000 rubles; this fact was well known to all the inmates of the camp. 50X1-HUM

4. Other observations:

50X1-HUM

In the summer of 1949, [redacted] 25 km north of Moscow on the road to Pushkino-Yaroslavl) about 20 km north of Moscow and 8 km east of the road. [redacted] the same phenomena as in Zhinki and [redacted] same howling sound. [redacted] there is a similar experimental plant. 50X1-HUM
50X1-HUM

5. [redacted]

50X1-HUM

a. Plant No. 456

In this plant the units for V-2 are prepared for firing; part of them arrive from other places; part of them are made in the plant itself. It is rumored that the fuel is also manufactured in the plant.

b. Experimental station

Three to five propelling units per day were tested in the plant (Period January/February 1949). At each trial a whitish darting flame several feet long with a light vapour left the tower. [redacted]

[redacted] the fuel used as propellant is hydrogen. 50X1-HUM

50X1-HUM

c. The four plants around the airfield of Zhinki are under the command of a Soviet colonel of the Soviet Air Force. The guard detail consisted of soldiers of the Soviet Air Force.

d. The total of German engineers working in the plants was 100 to 150; six of them held positions similar to that of a control engineer in German factories. They also gave instruction to Soviet engineers [redacted]. Each of these six head engineers was always accompanied by an officer of the Soviet Air Force. 50X1-HUM

50X1-HUM

[redacted] Comment:

50X1-HUM

1. The report confirms the manufacture (or partial manufacture and assembly) of rocket power units for large rockets in plant 456. This report also states that five tests were made per day - day and night work - which means maximum production of about 100 to 150 pieces per month after 1948!

2. The use of 98 percent alcohol and liquid oxygen as fuel has been mentioned in previous reports. The production of liquid oxygen in plant 456 is mentioned for the first time and is only concluded from the traffic of tank trucks between the plant and the railroad station. However, this might be a wrong inference.

-3-

SECRET/CONTROL/US EYES ONLY

50X1

SECRET / CONTROL / U.S. OFFICIALS ONLY

CENTRAL INTELLIGENCE AGENCY

50X1

This opinion is supported by another report and previous reports on Khimki, which only spoke of filling oxygen from railroad tank cars. A German oxygen plant was transferred from Lehesten to Podlipki so that there is good reason to believe that its destination was Malinograd.

3. The firing of a V-2 from this plant into the White Sea, as mentioned under 3(7), seems doubtful. The shortest distance from Khimki to the White Sea is 900 km. but as the whole news was only a rumor, it was possibly a round fired into the White Lake (Beloye Ozero), which is about 300 km distant from Khimki. On the other hand, it seems more probable that the round fired into the White Sea was fired from another place as the Soviets have received at least six so-called FMS-trains with full equipment as mobile launching sites. The presence of such a train in Khimki may be considered as confirmed by previous reports.
4. The duration of combustion of 15 to 20 minutes, as indicated under 3(3), is considered the result of an erroneous estimation of time. This statement is also in contrast with another report, where [redacted] the duration of combustion at a few seconds, at least less than one minute. [redacted]

50X1-HUM

Attachments: Two

Plants Nos. 831, No. 836, No. 835 and experimental station in Moscow-Khimki.

-4-

SECRET / CONTROL / U.S. OFFICIALS ONLY

50X1

SECRET/CONTROL US OFFICIALS ONLY

CENTRAL INTELLIGENCE AGENCY

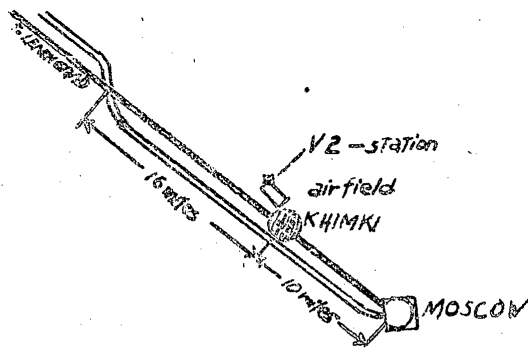
Attachment 1

50X1

Plants No. 301, No. 456, No. 225 and Experimental Station

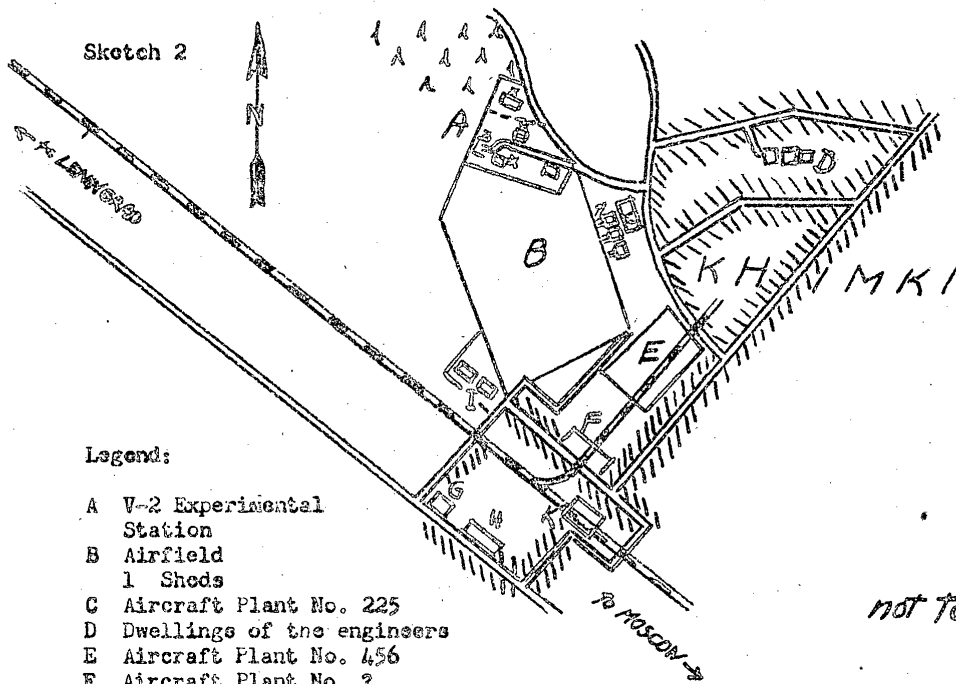
in Moscow-Khimki

Sketch 1



not to scale

Sketch 2



not to scale

Legend:

- A V-2 Experimental Station
- B Airfield
1 Sheds
- C Aircraft Plant No. 225
- D Dwellings of the engineers
- E Aircraft Plant No. 456
- F Aircraft Plant No. ?
- G Lenin Institute
- H Aircraft Plant No. 301
- I PW camp
- K RR station



50X1-HUM

SECRET/CONTROL US OFFICIALS ONLY

50X1



CONFIDENTIAL

SECRET/CONTROL US OFFICIALS ONLY

CENTRAL INTELLIGENCE AGENCY

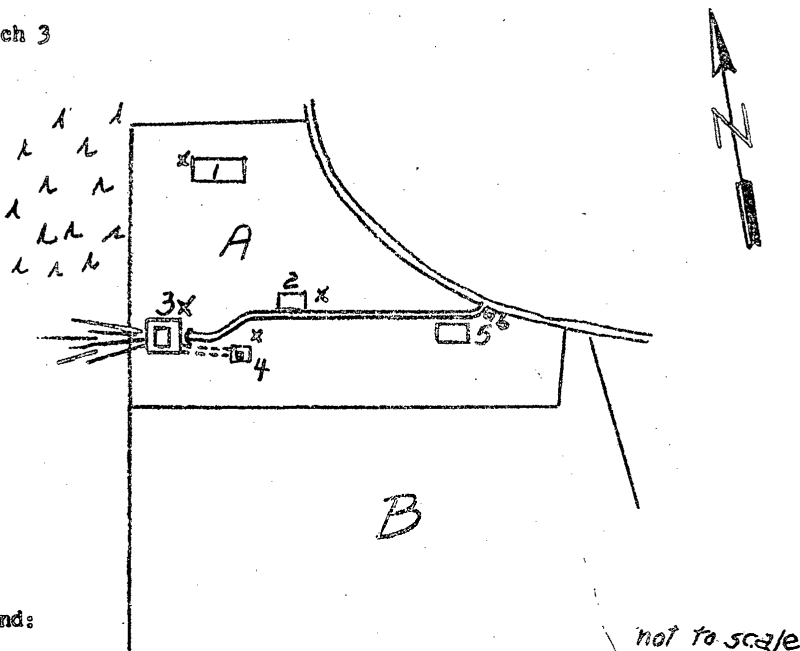
50X1

Attachment 2

Plants No. 301, No. 456, No. 225 and Experimental Station

in Moscow-Khimki

Sketch 3

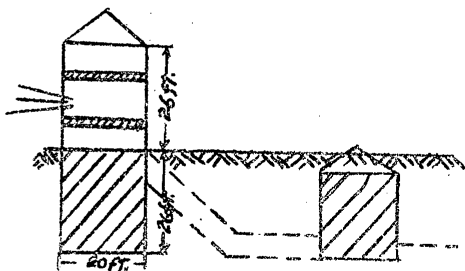


Legend:

- A V-2 Experimental Station
- 1. Engine house, 33 x 66 feet
- 2. Fuel bunker, 15 x 20 feet
- 3. Firing tower, 20 x 20 feet
- 4. Safety bunker
- 5. Store building
- 6. Guard
- B Airfield

50X1-HUM

Sketch 4



50X1

SECRET/CONTROL US OFFICIALS ONLY

CONFIDENTIAL