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# ALUMINA AND ALUMINUM PLANT AJKA, HUNGARY

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**ALUMINA AND ALUMINUM PLANT**

**AJKA, HUNGARY**

**CIA/RR-HPA-M7-56**

**30 November 1956**

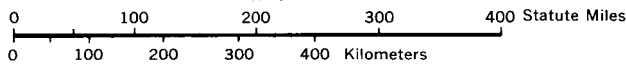
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### The European Soviet Satellites

Scale 1:10,000,000



Selected railroad

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Approved For Release 2001/08/07 : CIA-RDP78T04753A000300020004-5

HTA-M7-56

**ALUMINA AND ALUMINUM PLANT**

**AJKA, HUNGARY**

The Ajka Alumina and Aluminum Plant is located in West Central Hungary, one mile Southwest of the town of Ajka and 16 miles West of Veszprem. Construction of this plant actually began in 1941. However, despite strenuous efforts of the German and Hungarian governments, only negligible production was accomplished during World War II, due primarily to a shortage of electrical power. Following the war the Soviets took over the German interest in the plant. After a period of delay due to technical difficulty and to some Soviet dismantling for reparations, activity approaching full operation was reportedly achieved for the first time in 1947. 25X1C

25X1D [REDACTED] reports indicate that the plant has been undergoing an almost continuous program of expansion and modernization since the previous photo coverage in [REDACTED] and that it is an integrated alumina-aluminum plant with a final product of pig metal. All of the plant's alumina production was at one time reportedly smelted in its own aluminum reduction facilities. However, the subsequent expansion of alumina production capacity probably now results in a substantial part of alumina production being exported or transferred elsewhere in Hungary for processing.

No rolling mills or aluminum fabrication buildings are in evidence on [REDACTED] photography. 25X1D

Bauxite is delivered to the plant by rail. Electric power is supplied by the Ajka thermal power plant, which adjoins the plant on the east. This plant was reportedly tied into the national grid for emergency purposes in 1949.

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The Ajka Alumina and Aluminum Plant is comprised of the following functional units, which are identified on the accompanying annotated photograph.

1. New bauxite storage building, 100'x 375'. Bauxite ore is stored here in large covered bins.
2. New unidentified building, 110'x 230'.
3. New ore grinding building, 95'x 270'.
4. Overhead conveyor. Transports crushed ore from the grinding building (3) to the leaching building (6).
5. New water cooling tower, 120' high, 80' in diameter.
6. New leaching and separating building, 135'x 380'.
7. Overhead conveyor, 155' long. Transports materials from leaching building (6) to the new processing building (8).
8. Processing buildings. Total roof cover is approximately 83,000 square feet. These four inter-connected buildings reportedly contain vacuum distillators, filters, new rotary kilns and other processing equipment.
9. Three probable small shops or administration buildings, 95'x 80', 25'x 75' and 35'x 85'.
10. New precipitation tank building. Houses 16 newly installed, 80' high alumina precipitators.
11. Coal storage.
12. Water cooling tower. Associated with the thermal power plant.
13. New water cooling tower. Apparently not yet in operation.
14. Thermal power plant. Supplies the necessary steam, heat and electrical power for the aluminum plant.
15. Overhead steam line. Leads directly into the new processing buildings (8) of the alumina plant.
16. Shipping platform. Located on the ground floor of the rectifier building (17).
17. Rectifier building, 85'x 170'. Houses the transformers, switching gear and modifiers necessary for the alumina reduction process.
18. Probable storage building, 25'x 185'.
19. Two pot rooms, each 120' x 490'. Contains a series of electrolytic furnaces which produce aluminum from alumina.
20. Foundry, 95'x 160'. Reportedly contains smelting furnaces.
21. Two alumina storage silos. Located at the corner of the pot room.
22. New stack. This 325' high stack is reported to be used with the recently installed ventilating system in the pot rooms.
23. Unidentified building, 50'x 245'.
24. Unidentified building, 70'x 160'.
25. New railroad spurs. Lead to bauxite storage building (1).
26. Re-aligned stream. Diverted to make space for the new plant expansion.
27. Red mud lake. A new area for the disposal of the red mud waste.

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25X9

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REQUIREMENT: Prepared in answer to RR/HTA/E/R50/56 requesting description of plant layout and evidence of expansion.

25X1D

PHOTO DATA:



MAP REFERENCES:

World Aeronautical Chart 252  
U.S. Target Chart-Series 100. [redacted]-100  
U.S. Target Mosaic-Series 10. [redacted]-LOMA

25X1

COORDINATES:

47° 06' N  
17° 33' E

B.E. NUMBER:



25X1