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TCS No. 1304/64  
IB 92/64  
25 February 1964  
Copy 1

MEMORANDUM FOR: Chief, Resources Division, ORR

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ATTENTION : [REDACTED] R/MM

THROUGH : Chief, Requirement Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Pavlodar Alumina Plant, USSR

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REFERENCES : (1) ORR Requirement No. C-RR4-80,974  
(2) CIA/PID Project No. C 173/64

1. This memorandum is in response to the above referenced requirement requesting annotated enlargements from [REDACTED] photo missions to show the construction activity, a description of the facilities from the latest photo mission and measurements of all major buildings at the Pavlodar Alumina Plant, USSR.

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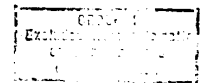
2. The Pavlodar Alumina Plant is located on enclosure CIA/PID/IB-P-310/64 and annotated on enclosure CIA/PID/IB-P-307/64. An analysis of photo mission [REDACTED], revealed the plant in the late stages of construction and not yet in operation. The plant area contains almost all the units needed for the production of alumina, but it probably won't be in operation until the summer of 1964.

The largest building in the plant area (Annotation 12, Enclosure CIA/PID/IB-P-307/64) may possibly be housing equipment to remove the remaining amount of alumina and caustic soda from the red mud before the mud is piped to the waste lake. The building at Annotation 18 on the same enclosure may be used for sintering or roasting of the ore. It seems logical for the operation mentioned to be taking place in these buildings as they are in the proper location and are the type buildings used for the suggested function. However, a definite function cannot be given for either of these two buildings.

3. It is this analysts opinion that the small area southeast of the alumina plant will be no more than a large power plant/steam plant. The area adjacent to and south of the boiler house/generator hall will probably be used for a transformer yard as indicated by what appears to be a small switch house adjacent to the smoke stack.

DECLASSIFICATION REVIEW BY NIMA / DoD

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SUBJECT: Pavlodar Alumina Plant, USSR

4. A line drawing giving measurements of all major buildings at the plant is given on Enclosure CIA/PID/IB-P-311/64. The measurements given on this line drawing were computed by TID/NPIC and they term the heights as very approximate.

5. Photo Missions [REDACTED]

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[REDACTED] used to make a comparison in the construction activity at the plant. The results of this comparison are on the attached table.

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6. The photo analyst assigned to this requirement was [REDACTED] who can be contacted on extension 2547 should any further information concerning this memorandum be desired. This requirement is considered complete.

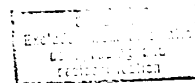
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ENCLOSURES:

- 3 Annotated Enlargements (CIA/PID/IB-P-307/64 through P-309/64)
- 1 Map (CIA/PID/IB-P-310/64)
- 1 Line Drawing (CIA/PID/IB-P-311/64)



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| ANNO. NO | ITEM                                    |   |  |   |
|----------|---|---|--|---|
| 1.       | Red Mud Lake                            | Dry                                       | Dry  | Contains small amount of water                      |
| 2.       | Future Coal Yard                        | Cleared Area                              | No visible change                            | No visible change                                   |
| 3.       | Smoke Stack                             | Erected and complete                      | No visible change                            | No visible change                                   |
| 4.       | Boiler House                            | Area cleared                              | Foundation laid                              | Partly constructed                                  |
| 5.       | Two Water Cooling Towers                | Area cleared                              | Excavations dug                              | Frame work erected                                  |
| 6.       | Calcining Building                      | Area cleared                              | Foundation laid                              | Partially constructed                               |
| 7.       | Two pipelines                           | Ditches dug                               | No visible change                            | Complete  |
| 8.       | 58 Precipitators                        | No count can be obtained                  | Contains 34 precipitators                    | 58 Precipitators are complete, 4 more will be added |
| 9.       | Two excavators                          | Excavations dug                           | Unidentified equipment installed             | No visible change                                   |
| 10.      | Future ore storage yard                 | Excavation dug and ore separation wall in | No visible change                            | No visible change                                   |
| 11.      | Probable Caustic Soda Recovery Building | Walls erected                             | Roof being added                             | Appears complete                                    |
| 12.      | Unidentified Building                   | Roof appears uncomplete                   | Roof complete (Note small building attached) | A second small building has been attached.          |

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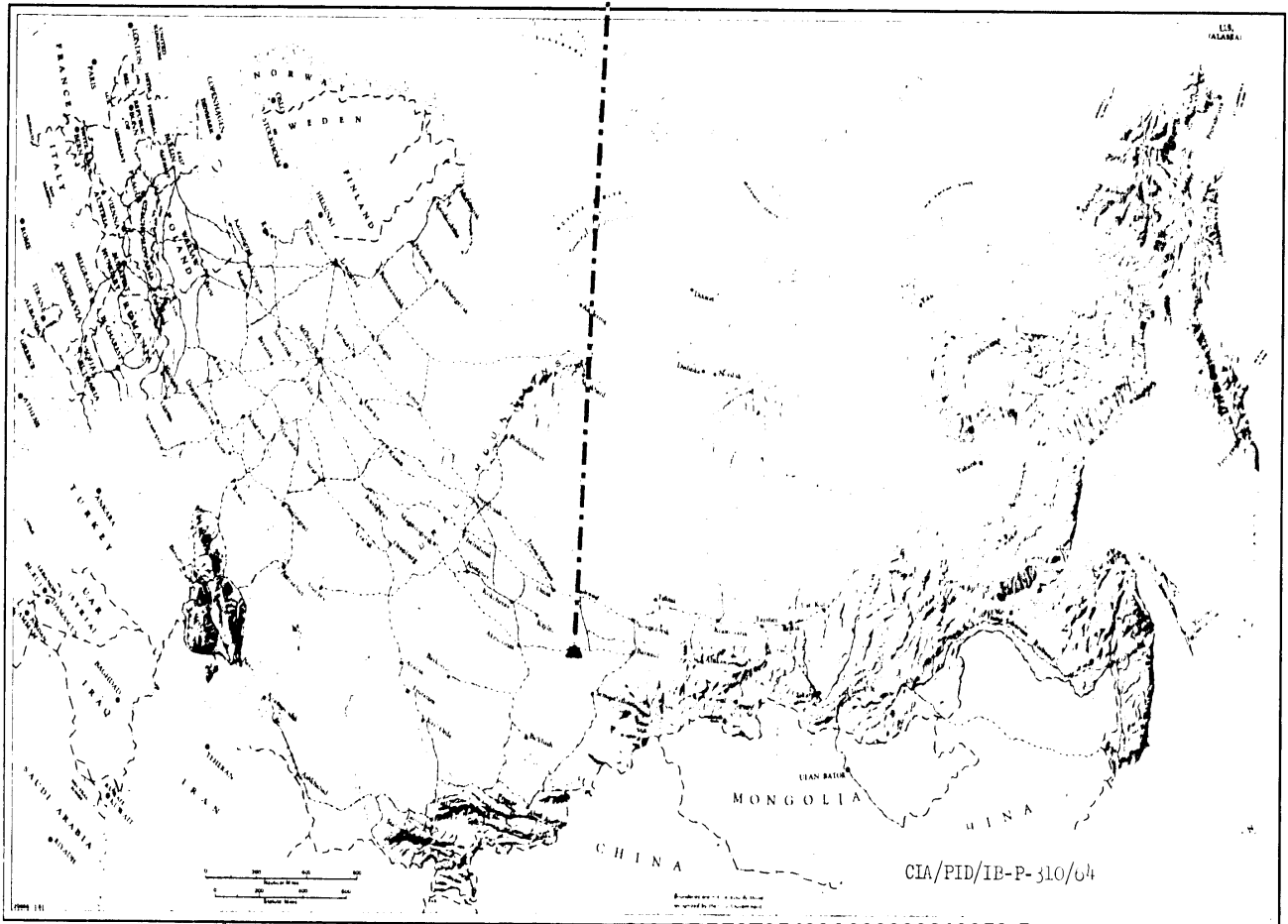
| <u>ANNO. NO.</u> | <u>ITEM</u>                  |   |                   |                        |
|------------------|------------------------------|---|-------------------|------------------------|
| 13.              | Ore Drying Kiln              | Appears complete                          | No visible change | No visible change      |
| 14.              | Mixing and Grinding Building | Appears complete                          | No visible change | No visible change      |
| 15.              | Digestion Section            | Appears complete                          | No visible change | No visible change      |
| 16.              | Blow-Down Section            | Appears complete                          | No visible change | No visible change      |
| 17.              | Filter Press                 | Appears complete                          | No visible change | No visible change      |
| 18.              | Unidentified Building        | Appears complete                          | No visible change | No visible change      |
| 19.              | Three water cooling towers   | Two complete excavation dug for the third | No visible change | All three are complete |

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# PAVLODAR ALUMINA PLANT

52°15'N/077°04'E



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KEY TO ANNOTATIONS

1. Red Mud Lake
2. Future Coal Yard
3. Smoke Stack
4. Boiler Room/Generator Hall (Under construction)
5. Two Water Cooling Towers (Under construction)
6. Calcining Building (Under construction)
7. Two Pipelines
8. 58 Precipitators
9. Two Excavations
10. Future Ore Storage Yard
11. Probable Caustic Soda Recovery Building
12. Unidentified Building
13. Ore Drying Kiln
14. Mixing and Grinding Building
15. Digestion Section
16. Blow-down Section
17. Filter Press
18. Unidentified Building
19. Three Water Cooling Towers



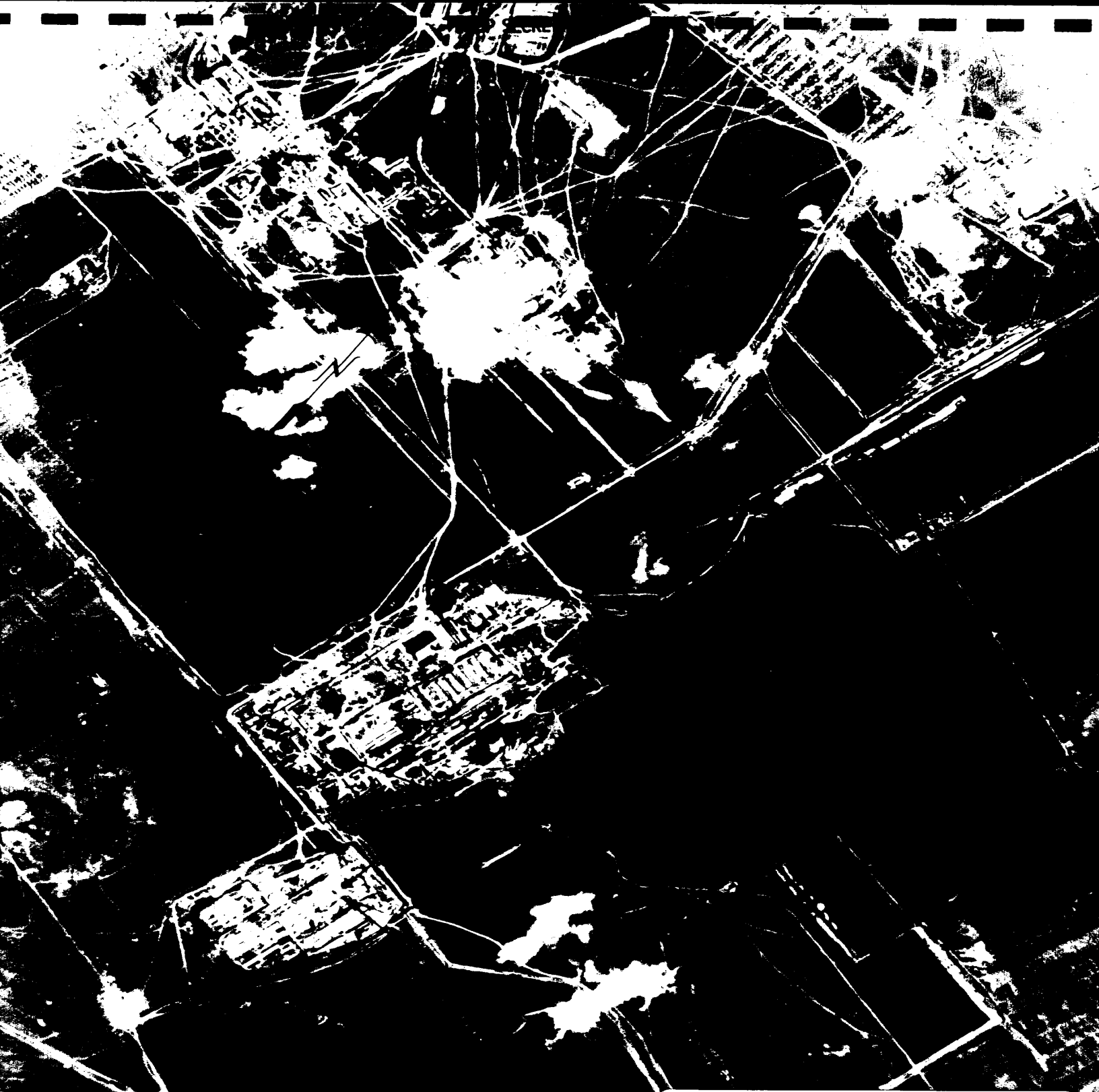
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