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PHOTO INTELLIGENCE MEMORANDUM

SPECIAL INSTALLATION

GF/T-52

(Project 70.150)

February 1955

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Office of Research and Reports

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**Declass Review by NIMA/DOD**

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SPECIAL INSTALLATION

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This memorandum is submitted in answer to a request from OSI/NEED for an analysis of the three ground photographs included as Annexes 4, 5, and 6 of this report. The reported general area shown in the ground photographs was located on the [REDACTED] photography of that area was then procured and inspected for any common features. The point on the railroad line at which the photographs were exposed was determined as accurately as possible from the data provided in the Moscow Report No. R-158-53. A detailed study was then made of the photographs both ground and aerial to determine the points of origin and the azimuths of the axes of the taking cameras. Bearing lines were then drawn on the air photo from the points of origin of the ground photographs to the buildings shown in these same photographs and the positioning of the buildings established by the points of intersection.

Dimensioning of the structures could not be accomplished by precise photogrammetric methods since the needed supplemental data as to focal length, negative size, degree of enlargement, etc., was not available. The calculations of heights, lengths, and widths, therefore, were based on the arbitrary assignment of a height of fourteen feet to a single story industrial type building. The resulting values must be taken as probabilities with an indeterminate range of error.

The bulk of the report is presented in a series of annexes as follows:

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Annex 1. Consists of an enlargement of that portion of [REDACTED] that encompasses the area of concern and an orienting overlay indicating the area of cover of the aerial photograph (Annex 2).

25X1D

Annex 2. This is an enlargement of a portion of print [REDACTED] and it is accompanied by an overlay that indicates the points of origin and the angles of cover of the ground photographs. Angles I, II, and III represent Annex 4, 5, and 6 respectively. The overlay further shows by means of numbered symbols the location of the buildings of interest within the area. Building number 3 which is not shown on the ground photographs is included on the overlay because it is the principal building of the "Pose" Institute. The positioning of the buildings is probably

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correct to within <sup>25X1D</sup> [REDACTED] Note that photos II and III were exposed approximately one kilometer north of the two bridges across the Protvo River as indicated in Moscow Report No. R-158-53.

Annex 3. Consists of sketches of the buildings shown on the ground photography with approximate dimensions indicated. Note that buildings 4 and 5 appear to be almost identical in structure.

Annexes 4, 5, and 6. Consists of enlargements of the original ground photography to be used as reference in the evaluation and use of this report.

An interesting and significant structure on the ground photography is the tall chimney, estimated as 210 feet high, that dominates the skyline in each picture. A chimney of this size might normally be used for the dispersal of noxious gases associated with smelting industries. However, the size and type of buildings in this installation and the lack of visible ore stocks or conveyor systems strongly indicate that this is not a smelting industry.

This large chimney would provide intense draft for a large furnace, but the lack of coal piles, conveyor systems, and the comparatively small building at the base of the chimney appears to eliminate this possibility.

This chimney may be intended for the dispersal of radioactive fumes. At the base of the chimney is a small building which may house the blower machinery used in a forced draft. The location of the chimney within the complex is such that its gases are carried away from the other buildings by the prevailing winds.

The purpose of the remaining buildings cannot be determined and analysis is further hampered by the poor quality of the photographs. With the exception of the small building at the base of the large chimney, which appears to be concrete or brick, all buildings are probably of stucco construction.

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Building No. 2 (see Annex 2) appears to be under construction and nearly completed on the [REDACTED] photos the construction of all buildings appears to be completed.

The location of the complex within the geographic barrier of the river bend is suggestive of an integrated effort and the proximity of the complex to the "Pose" Institute lends support to the probability that the entire effort is within the field

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of nuclear energy and under the control of the old institute building.

One additional item of interest is the possible radio masts that appear on photos II and III.

Photography used:

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References:

25X1A

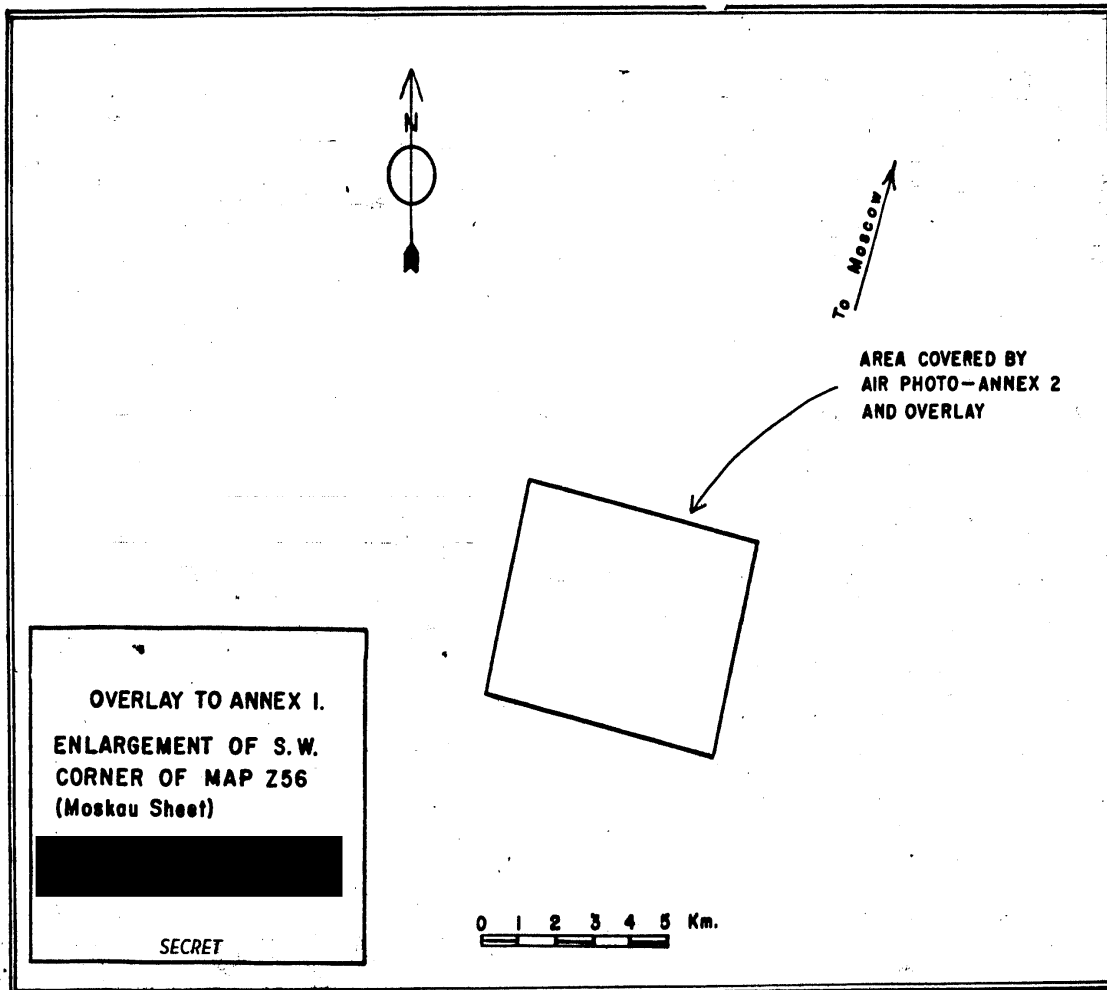


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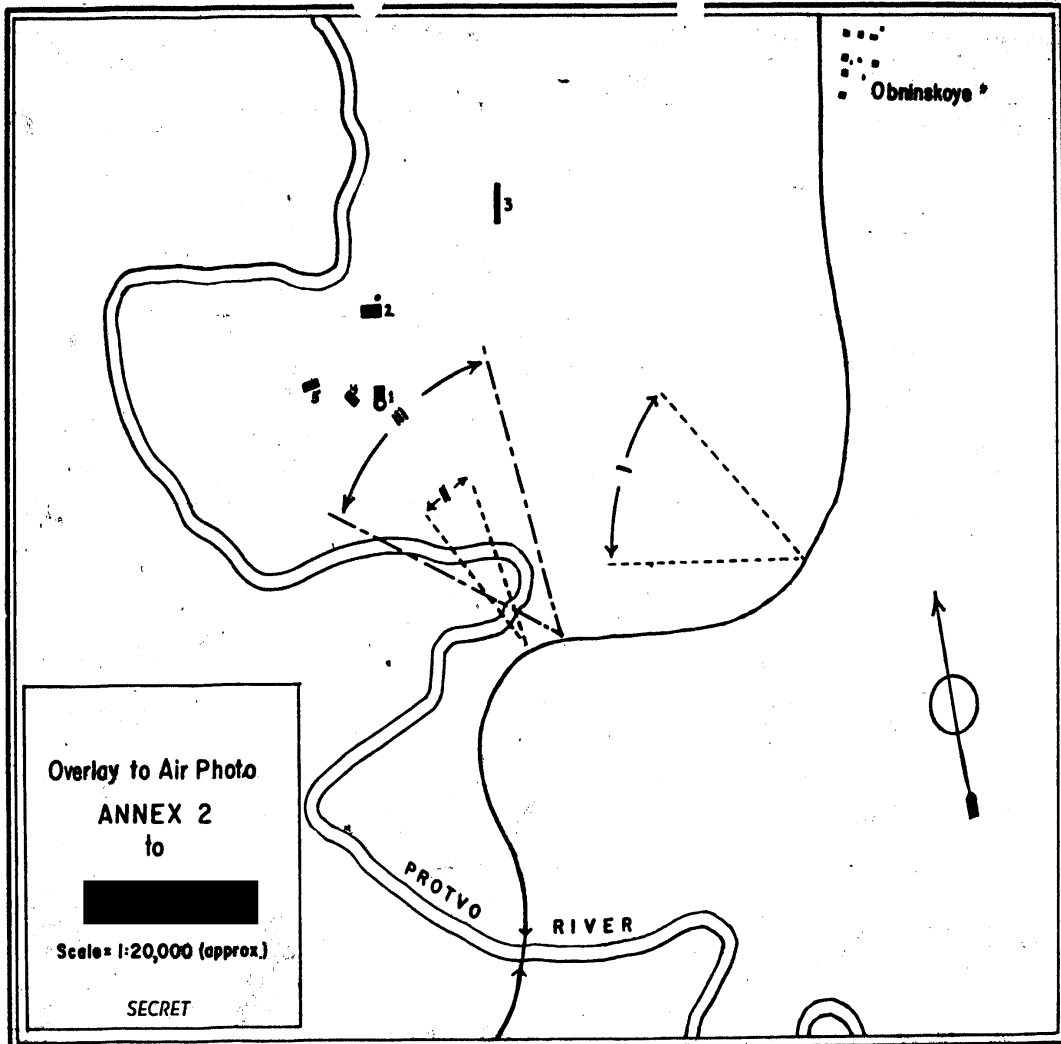
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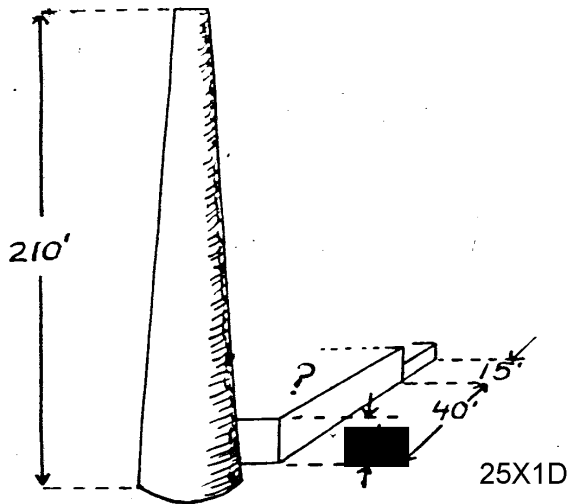


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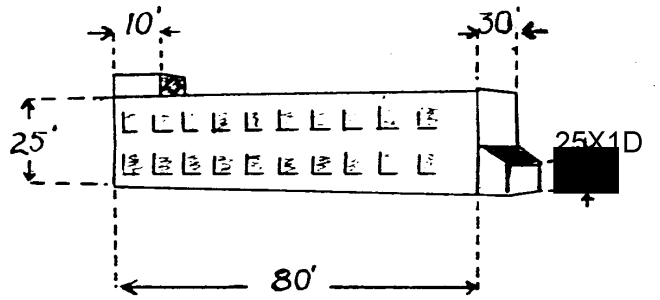
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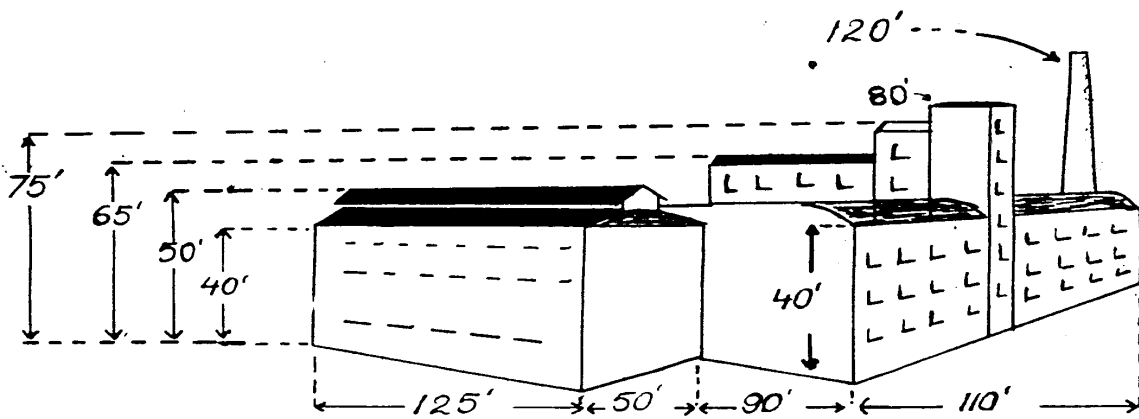




Bldg # 1



Bldgs #s 4 & 5



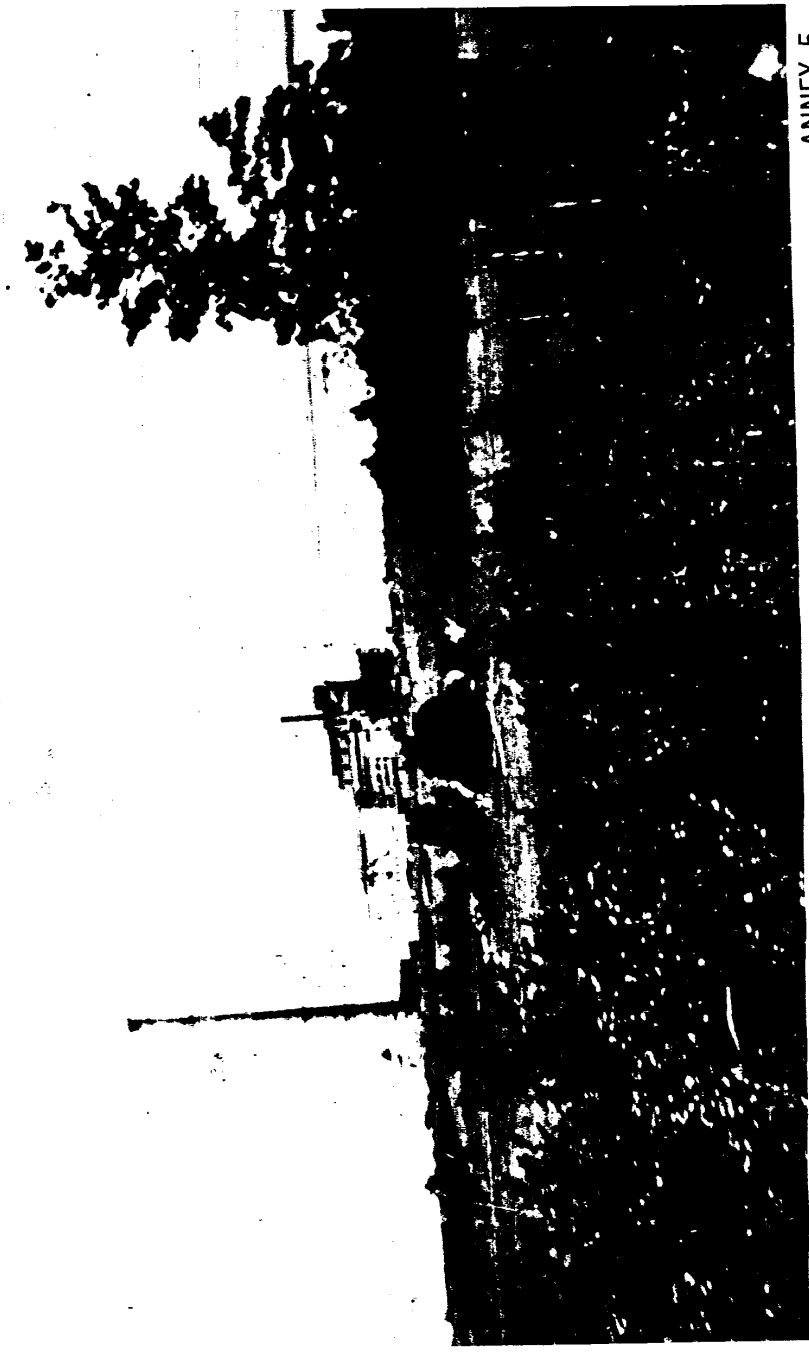
Bldg # 2

ANNEX # 3 to

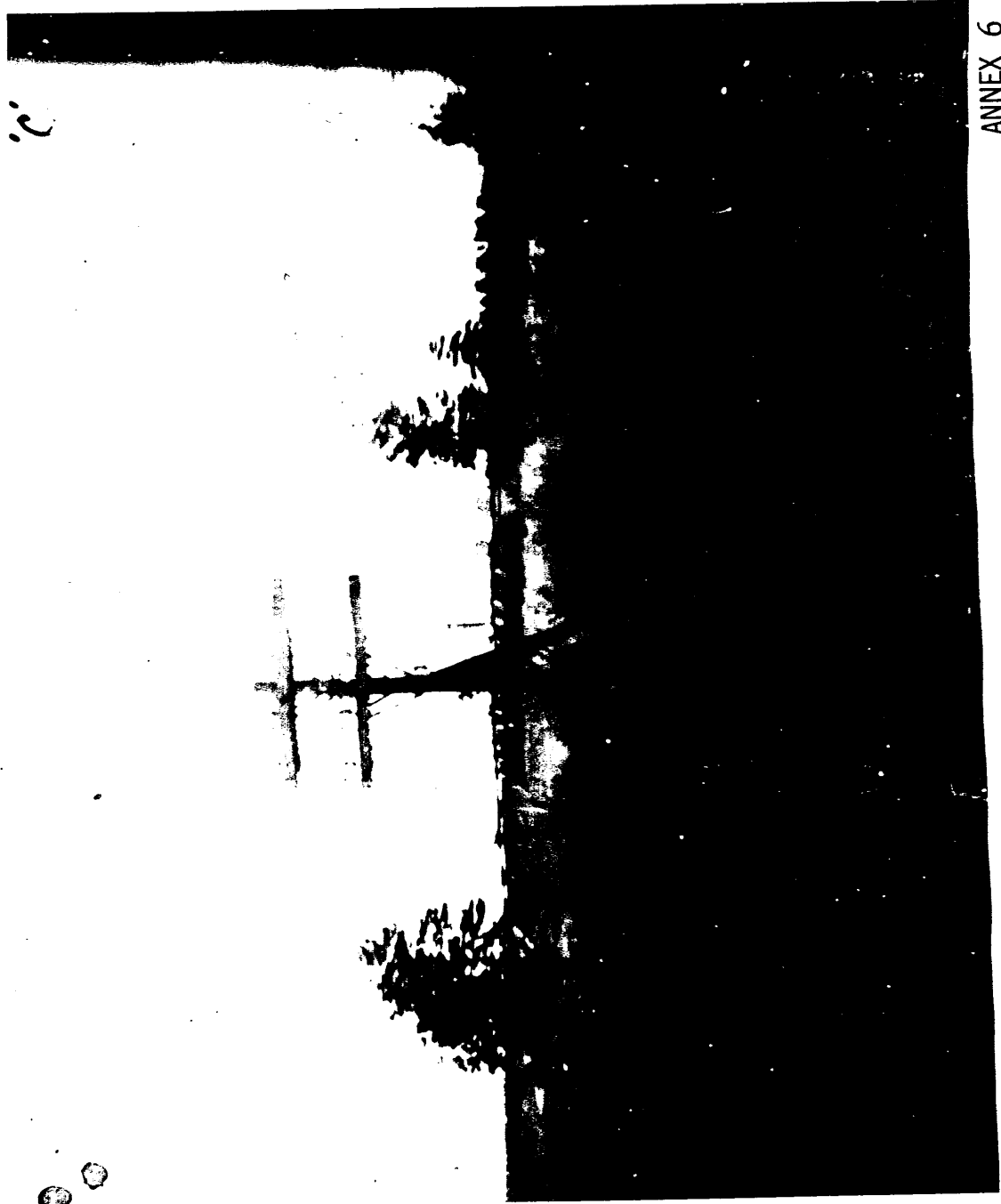
[Redacted]

ANNEX 4





ANNEX 5



ANNEX 6

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