

Page Denied

SECRET -

COPIING PROHIBITED

5-12974
NPIC/R-1002/61
September 1961

25X1

PHOTOGRAPHIC INTERPRETATION REPORT

DECLASSIFICATION REVIEW by NIMA/DOD 4/5/00

HEAVY PRESS BUILDING KUYBYSHEV METALLURGICAL PLANT KUYBYSHEV OBLAST, USSR



ARMY



NAVY



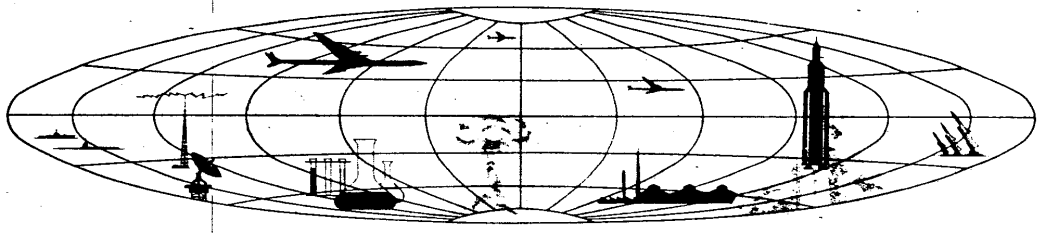
AIR FORCE



CIA

MINICARD COPY

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



SECRET

COPIING PROHIBITED

25X1

SECRET

DOWNLOADING PROHIBITED

25X1

PHOTOGRAPHIC INTERPRETATION REPORT

®

HEAVY PRESS BUILDING
KUYBYSHEV METALLURGICAL PLANT
KUYBYSHEV OBLAST, USSR

NPIC R-1002.61

September 1961

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

SECRET

DOWNLOADING PROHIBITED

25X1

SECRET

25X1

25X1

NPIC/R-1002/61

PREFACE

This photographic interpretation report has been prepared by the Air Force, Army, Navy, and Central Intelligence Agency in response to requirements requesting identification of a heavy press building under construction in Kuybyshev Oblast, USSR, appearing in two photographs in the April 1959 issue of the Soviet magazine Novaya Tekhnika Montazhnykh i Spetsialnykh Rabot v Stroitel'stve, and an analysis of the structural framing of this building and similar buildings at the Verkhnyaya Salda and Kuybyshev Metallurgical plants.

- 3 -

SECRET

25X1

25X1

SECRET

25X1

25X1

NPIC/R-1002/61

SUMMARY

A study of available photography of Kuybyshev Oblast indicates that a building similar to the unidentified building in the photograph in the Soviet magazine is located at the Kuybyshev Metallurgical Plant. An analysis of aerial photographs of the Kuybyshev plant, a similar plant at Verkhnyaya Salda, and the ground photograph in the Soviet magazine proves that the unidentified building is definitely at the Kuybyshev Metallurgical Plant and is identical to the building at Verkhnyaya Salda. Therefore, analysis of the structural framing of one plant applies to both.

DISCUSSION

In an attempt to identify the construction shown in the magazine photographs (Figures 1 and 2), available photography of Kuybyshev Oblast was studied, and the only similar structure found was at the Kuybyshev Metallurgical Plant. On the assumption that the plant at Kuybyshev could be the one shown in the magazine photos, an aerial photograph of the completed heavy press building at Kuybyshev (taken in December 1959) was compared with a photograph of a similar building under construction at Verkhnyaya Salda.

Detailed measurements and structural analysis of the high-bay building at the Kuybyshev Metallurgical Plant (Figure 3) and the building at the Verkhnyaya Salda Metallurgical Plant (Figure 4) indicate no significant differences in the two buildings. Therefore, it is assumed that all structural details observable in one building are duplicated at the other. On this premise, most of the steel framework in the Kuybyshev building can be extrapolated from a study of the similar building at Verkhnyaya Salda. A plan view derived in this manner and presented in Figure 5 shows supporting columns at Kuybyshev.

- 5 -

SECRET

25X1

25X1

SECRET

25X1

25X1

NPIC/R-1002/61

CPYRGHT

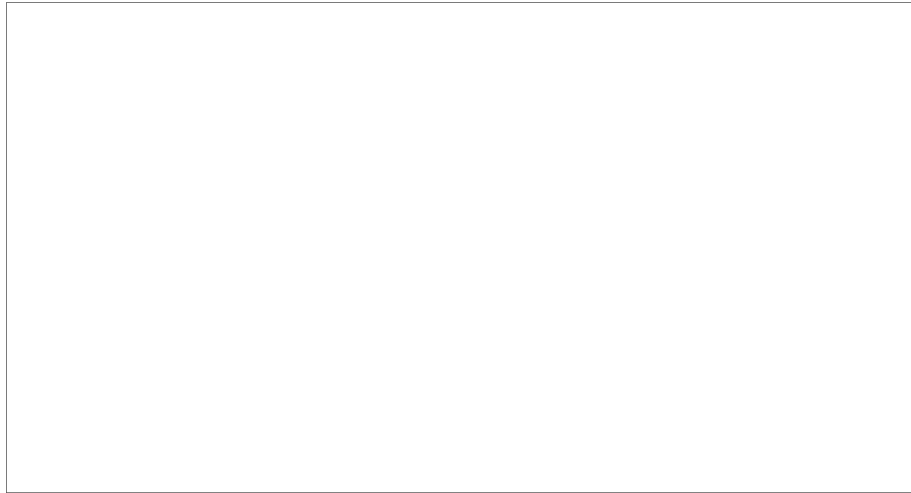


FIGURE 1. SOVIET MAGAZINE PHOTO SHOWING WSW VIEW OF A HEAVY PRESS FOUNDATION AT KUYBYSHEV METALLURGICAL PLANT.

CPYRGHT

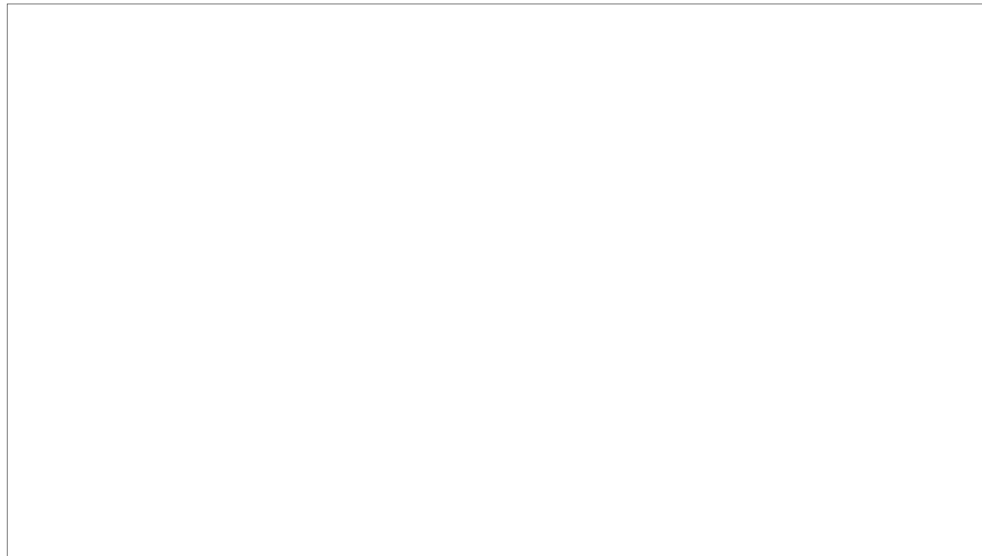


FIGURE 2. SOVIET MAGAZINE PHOTO SHOWING SE VIEW OF A HEAVY PRESS FOUNDATION AT THE KUYBYSHEV METALLURGICAL PLANT.

- 6 -

SECRET

25X1

25X1

SECRET

25X1

25X1

NPIC/R-1002/61

25X1

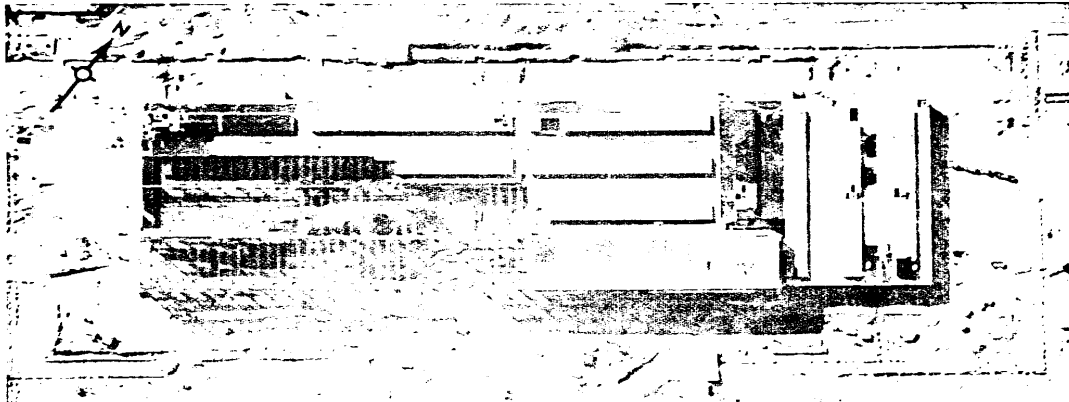
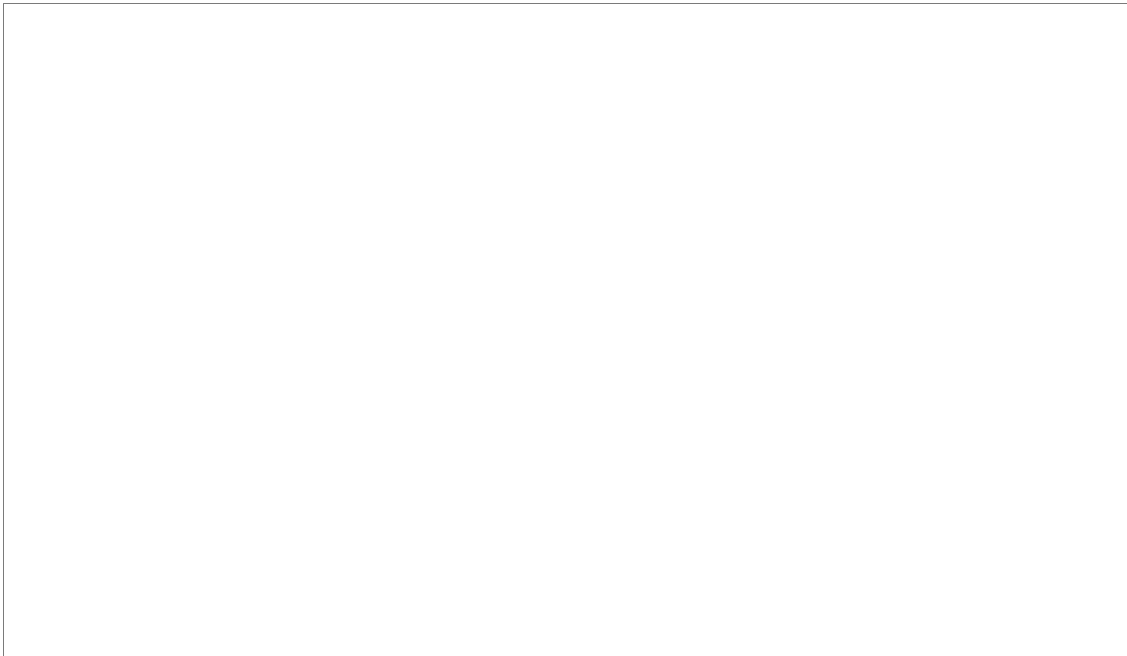


FIGURE 4. VERTICAL OF VERKHIYAYA SALDA METALLURGICAL PLANT HIGH-BAY BUILDING.

- 7 -

SECRET

25X1

25X1

Page Denied

SECRET

25X1

25X1

NPIC/R-1002/61

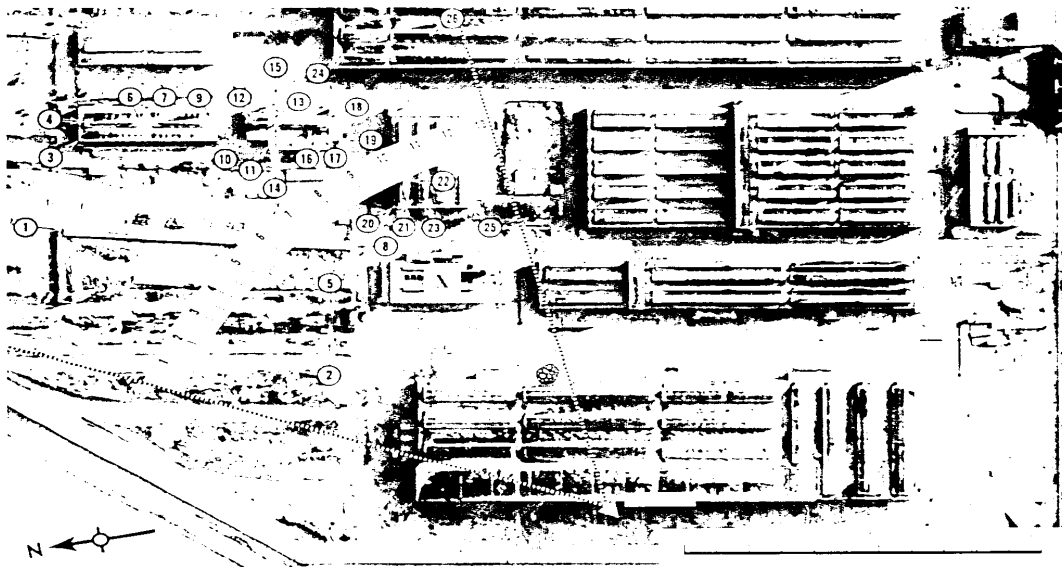
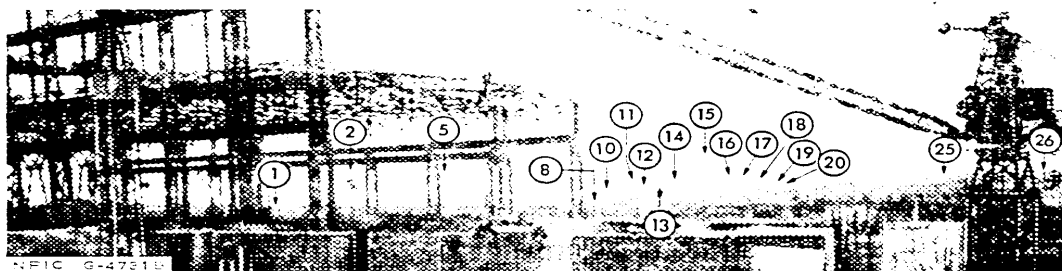


FIGURE 6(A). VERTICAL VIEW OF HEAVY PRESS BUILDING AT THE KUYBYSHEV METALLURGICAL PLANT TAKEN IN 1959.



NPIC G-4781B

1 2 3 4 5 6 7 8 9 10 11 12 13

FIGURE 6(B). PERSPECTIVE VIEW OF HEAVY PRESS BUILDING AT THE KUYBYSHEV METALLURGICAL PLANT TAKEN IN 1957.

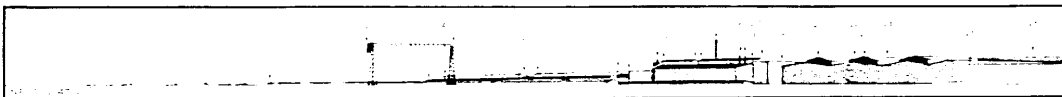


FIGURE 7. SILHOUETTE OF KUYBYSHEV METALLURGICAL PLANT DRAWN FROM AERIAL PHOTOGRAPHS.

- 9 -

SECRET

25X1

25X1

SECRET

25X1

25X1

NPIC/R-1002/61

25X1

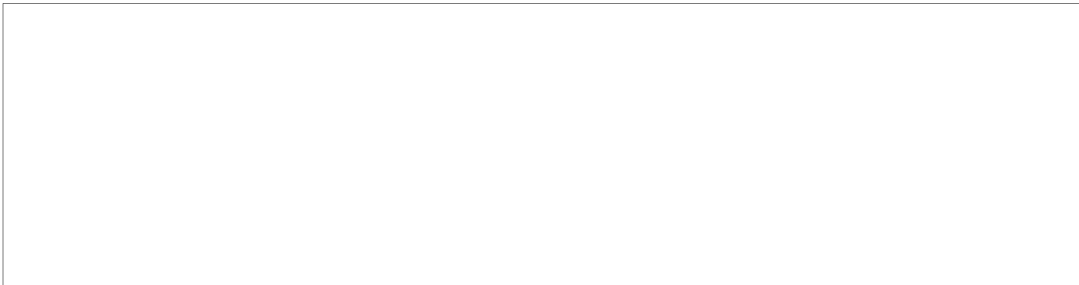
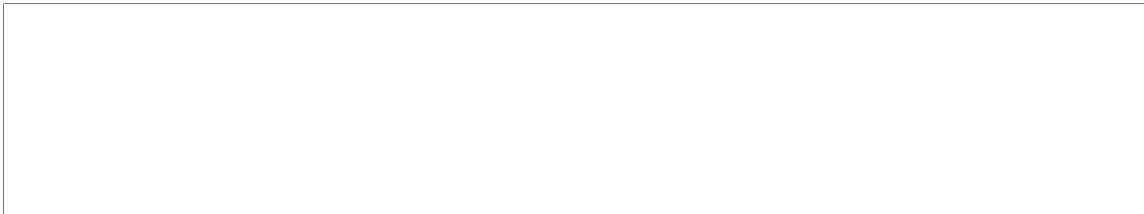


Figure 7 is a silhouette of the Kuybyshev Plant skyline, as it would have existed in 1957, constructed graphically from Figure 6A (taken in 1959). The photogrammetric exercise required to prepare the perspective shown in Figure 7 revealed that the building just east of the north end of the high-bay building (Item X, Figure 6A) did not exist in 1957 when, according to the article, the heavy press building was constructed. This building, therefore, was not shown in Figure 7. The similarity between Figures 1 and 7 is readily visible.

25X1



Since the steel framing shown in Figure 1 is part of the heavy press building at the Kuybyshev Metallurgical Plant which is identical to the heavy press building at Verkhnyaya Salda, the specific questions contained in the request for a structural analysis of the high-bay and low-bay sections of the "three" buildings can be answered by an examination of Figures 5 and 8.

SECRET

25X1

25X1

SECRET

25X1

25X1

NPIC/R-1002/61

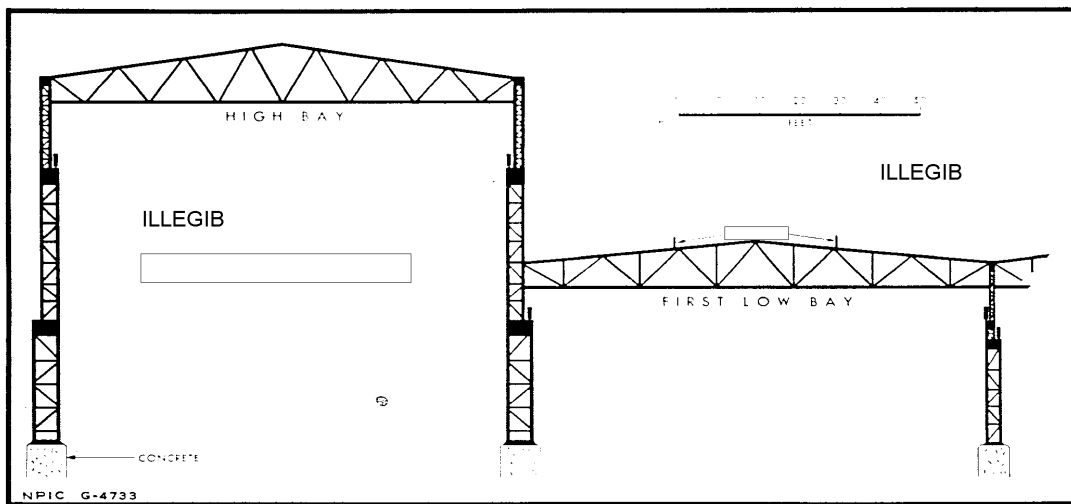
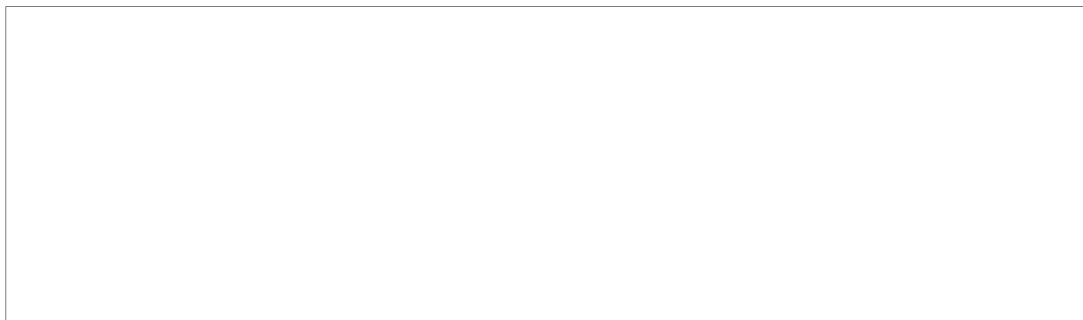


FIGURE 8. ELEVATION VIEW OF SUPPORTING STEEL FRAMING FOR THE HIGH BAY AND ONE ADJACENT LOW BAY AT VERKHNYAYA SALDA AND KUYBYSHEV METALLURGICAL PLANTS.

25X1

REFERENCES



DOCUMENTS

Milideev, L.V. "Vozvedeniye Slozhnovo Fundamenta Pod Tyazhely Press," Novaya Tekhnika Montazhnykh i Spetsialnykh Rabot v Stroitel'stve, No 4, Apr 59, pp 19-21. (U)

SECRET

25X1

25X1