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REACTOR BUILDINGS, KYSHTYM AND TOMSK  
ATOMIC ENERGY COMPLEXES, USSR

Declass Review by  
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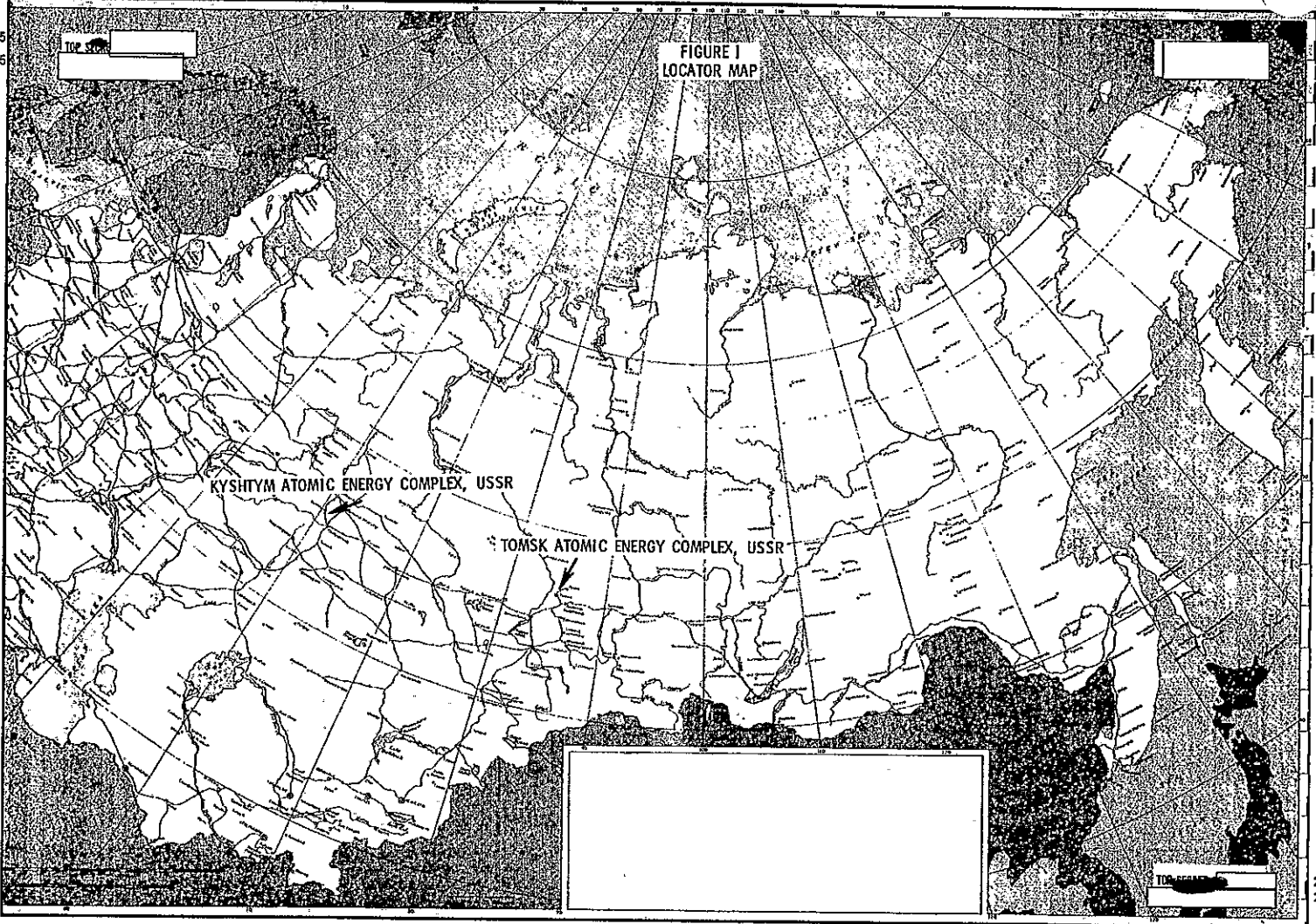
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REACTOR BUILDINGS, KYSHTYM AND TOMSK ATOMIC ENERGY COMPLEXES, USSR

INTRODUCTION

Detailed measurements and perspective drawings have been made of ten buildings at the Kyshtym (55-59N 60-43E) and Tomsk (56-36N 84-54E) Atomic Energy Complexes. These drawings include all four reactor buildings at Tomsk and Reactor Buildings I-A, I-B, II-A, and II-B\* at Kyshtym. Buildings 10 and 19 in Kyshtym Reactor Area I were also studied and are included in this report, but their functions could not be identified. Annotated photo enlargements of Kyshtym (Figure 2) and Tomsk (Figure 8) are included for orientation purposes.

All measurements have been made by the NPIC Technical Intelligence Division, with the exception of those shown with an asterisk. These measurements were made by the CIA/IAD project analyst. They should be considered as approximate and must not be taken as official NPIC measurement data. The NPIC/TID measurements are considered to be accurate within + 10 feet horizontally and + 10 feet or + 10%, whichever is greater, vertically for the Kyshtym sketches. Accuracy of the Tomsk NPIC/TID measurements is + 5 feet or + 2%, whichever is greater, horizontally and + 10 feet or + 10%, whichever is greater, vertically.

Kyshtym Atomic Energy Complex

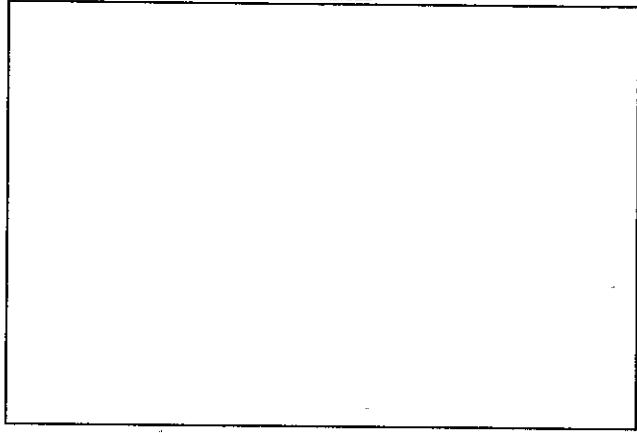
Missions [redacted] were the primary sources of detail for the Kyshtym perspectives, and both of these missions are generally of good quality. Even though coverage on each of these two missions is characterized by certain limiting factors, together they provide a good view of most of the buildings. Good quality [redacted] missions were also utilized as an aid in their interpretation. The results of this interpretation, as illustrated in the perspective drawings, are considered to be quite reliable; however, Building 19 (Figure 5) in Reactor Area I is an exception to this statement. This building is so much in doubt that only an artist's concept of its appearance can be presented at this time. Coverage from Mission [redacted] was too dark to reveal details of the building, and details were also obscured by snow and shadows on Mission [redacted]. Large scale summer coverage is needed to clarify the configuration of this structure.

Tomsk Atomic Energy Complex

Coverage from [redacted] Mission [redacted] was utilized for measurements of the Tomsk reactor buildings. Mission [redacted] also cover the complex; however, the reactor areas are almost 100% cloud-covered on [redacted] does not provide stereo coverage and cloud shadow obscures much detail in Reactor Area I, while Reactor Area II is partially cloud covered. [redacted] missions of good quality were used to help in the interpretation of the Tomsk buildings, but the coverage from Mission [redacted] is excellent quality so that it is the primary source of information. A 1958 ground photo of Reactor Building 3 in Reactor Area I, and U-2 Mission [redacted] were used for detailed interpretation. Even though the image quality of Mission [redacted] is excellent, it is also single-frame coverage. The lack of large scale stereo coverage was the only handicap in interpreting the small details necessary for perspective drawings. The roof configuration of the reactor building in Reactor Area II (Figure 12), for example, is believed to be essentially correct, but tone changes on the roof may also suggest other possibilities. Good, large-scale, stereo coverage is needed to completely resolve this question.

\* All building designations are taken from NPIC/R-248/63, NPIC/R-281/63 and NPIC/R-255/64.

REFERENCES



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DOCUMENTS

- NPIC. R-248/63. Reactor Area I, Kyshtym Atomic Energy Complex, USSR, June 1963, October 1963. (TOP SECRET [redacted])
- NPIC. R-281/63. Reactor Area II, Kyshtym Atomic Energy Complex, USSR, June 1963, November 1963. (TOP SECRET [redacted])
- NPIC. R-255/64. Atomic Energy Complex, Tomsk, USSR, February 1964, April 1964. (TOP SECRET [redacted])

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REQUIREMENT

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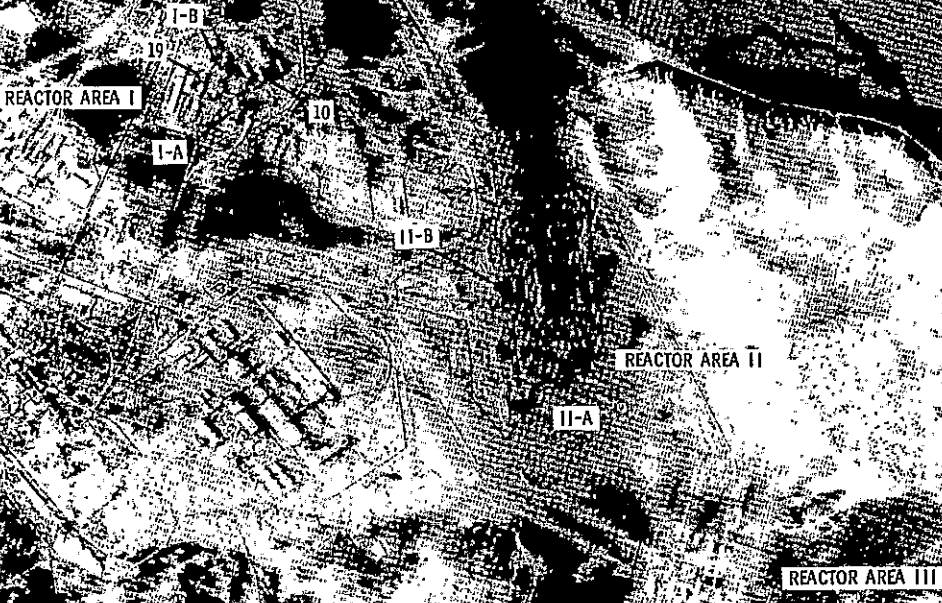
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FIGURE 2  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR  
6X ENLARGEMENT

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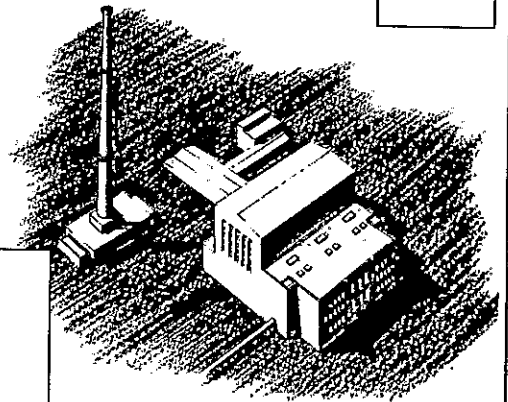
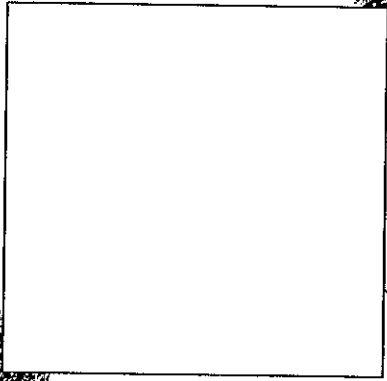
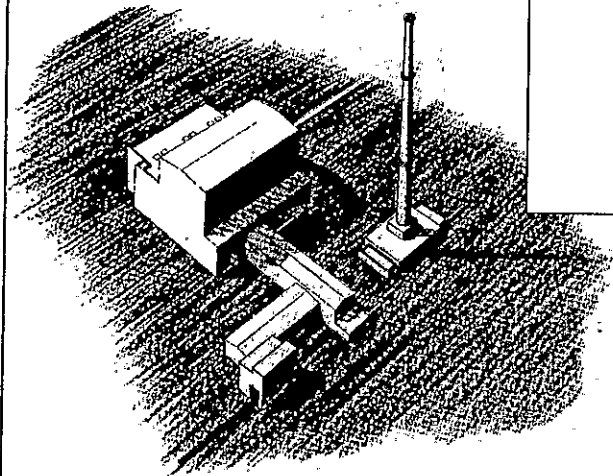
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FIGURE 3  
**REACTOR BUILDING I-A**  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR



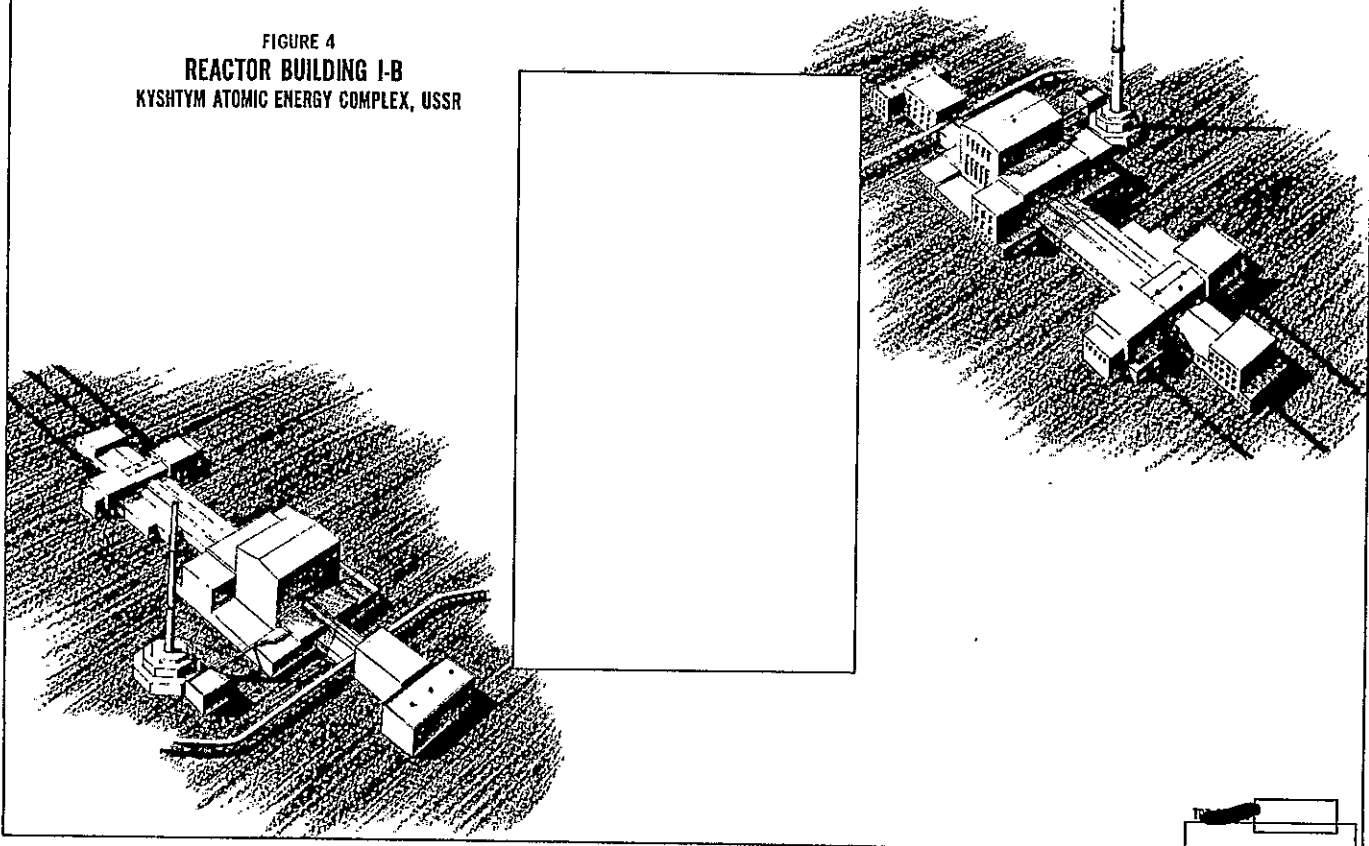
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FIGURE 4  
**REACTOR BUILDING I-B**  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR



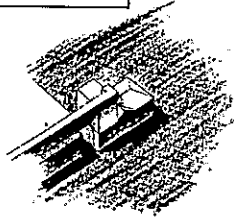
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FIGURE 5

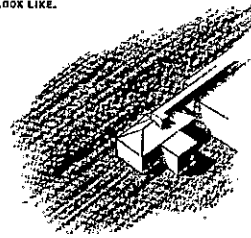
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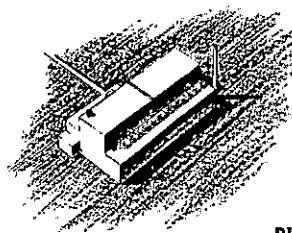
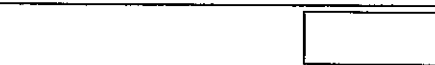
**BUILDING 19, REACTOR AREA I  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR**



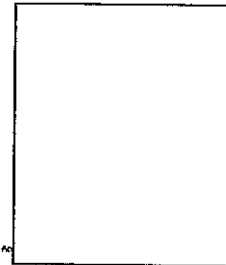
QUALITY AND SHADOWS OF PHOTOGRAPHY MAKE AN ACCURATE  
PRESENTATION OF THIS BUILDING IMPOSSIBLE. THE SKETCHES SHOWN  
ARE AN ARTIST'S CONCEPT OF WHAT THIS BUILDING MAY LOOK LIKE.



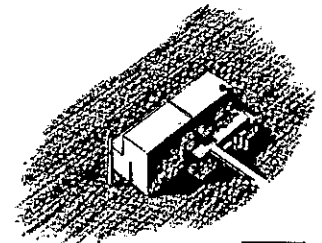
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**BUILDING 10, REACTOR AREA I  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR**



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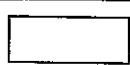
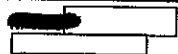
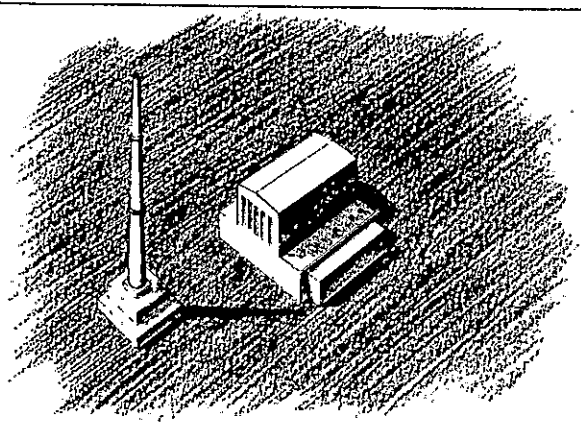
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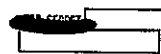
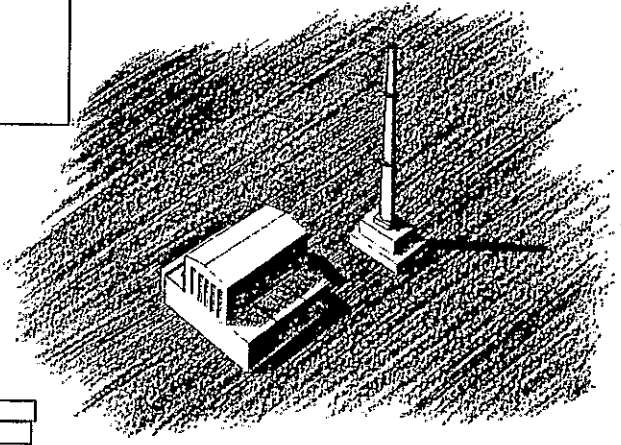
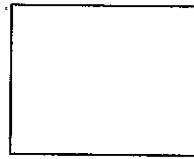


STACK 240' FROM  
TOP OF BUILDING - 1  
25' DIAMETER AT BASE

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FIGURE 6  
**REACTOR BUILDING II-A**  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR



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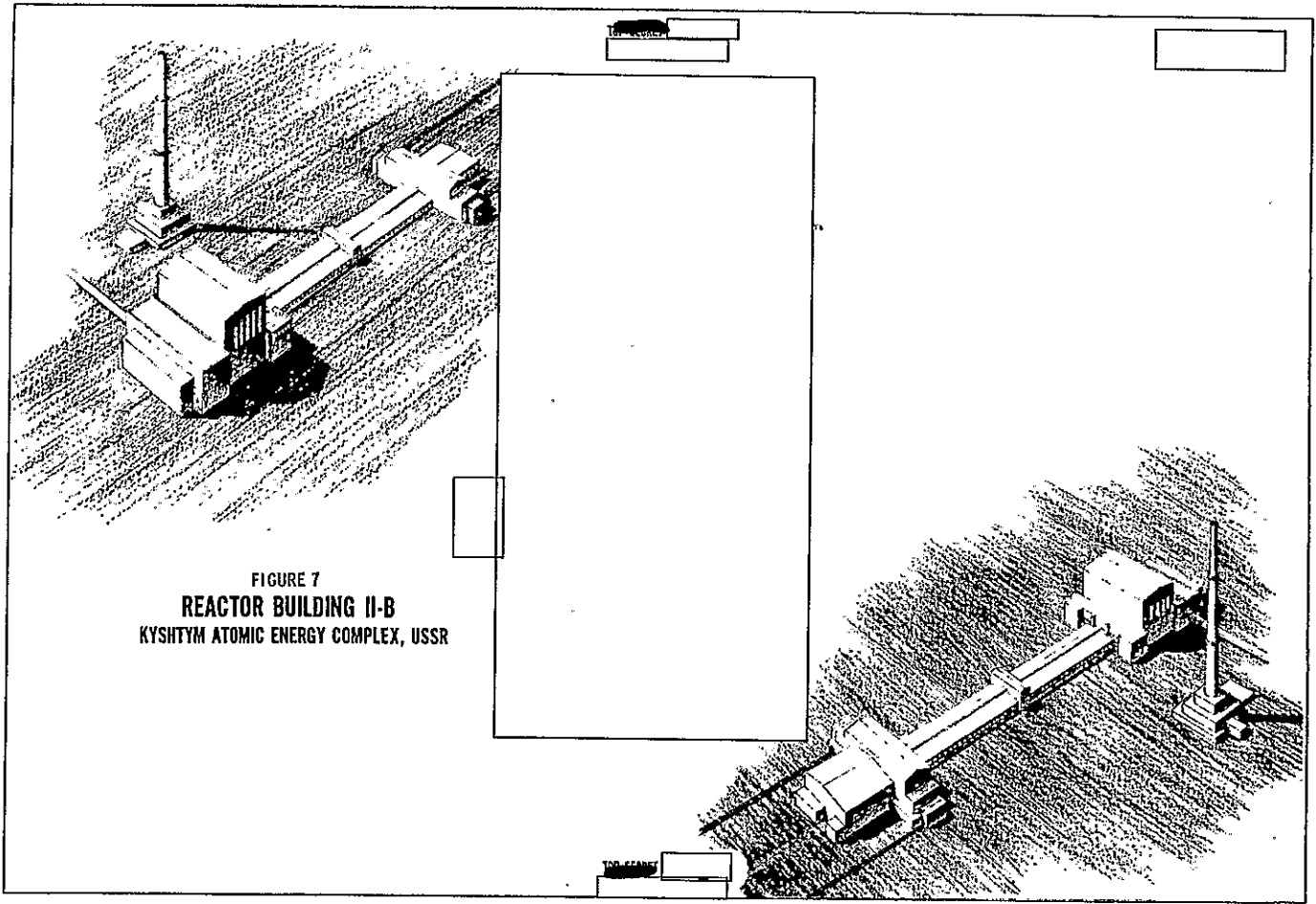


FIGURE 7  
**REACTOR BUILDING II-B**  
KYSHTYM ATOMIC ENERGY COMPLEX, USSR

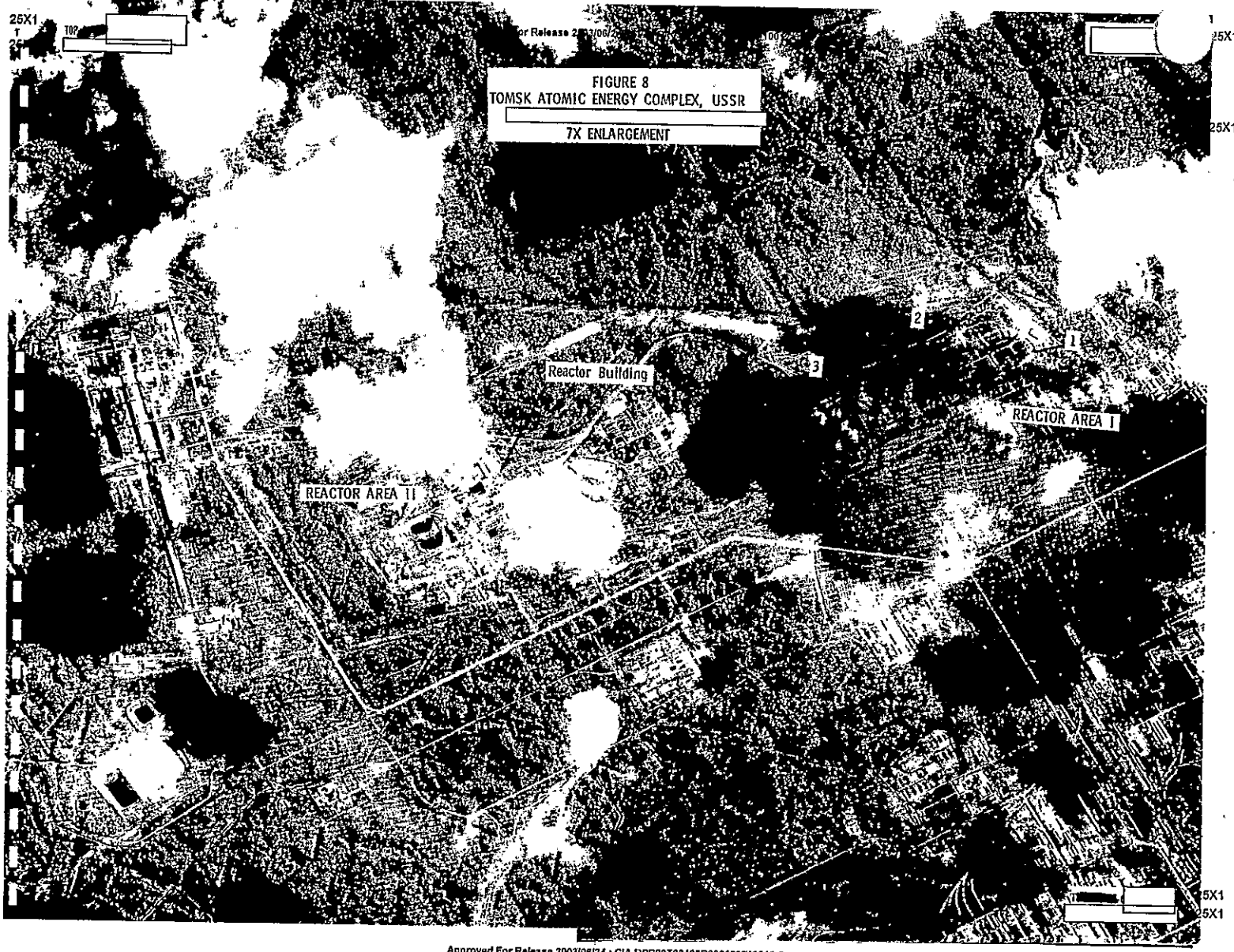
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FIGURE 8  
 TOMSK ATOMIC ENERGY COMPLEX, USSR  
 7X ENLARGEMENT



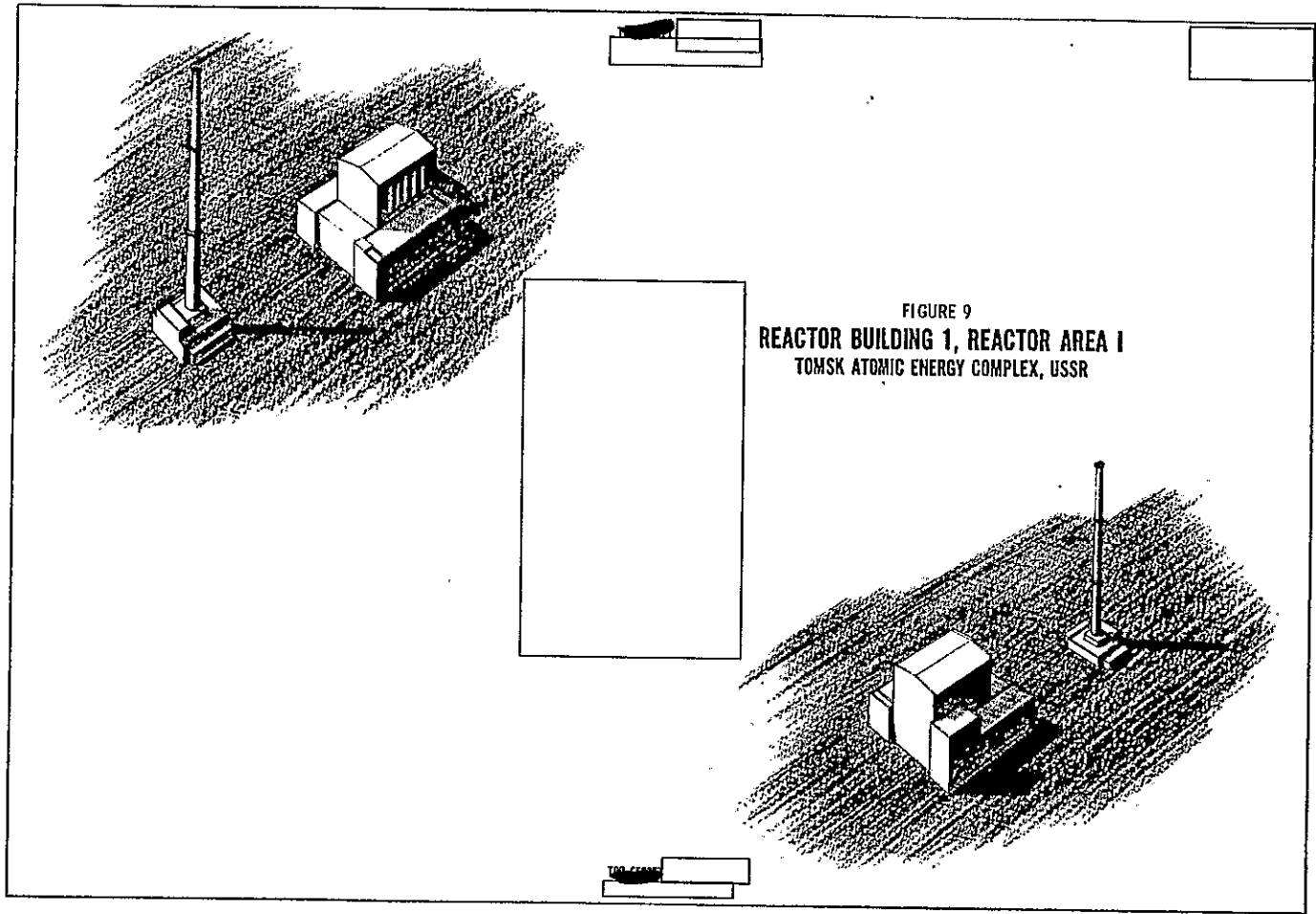
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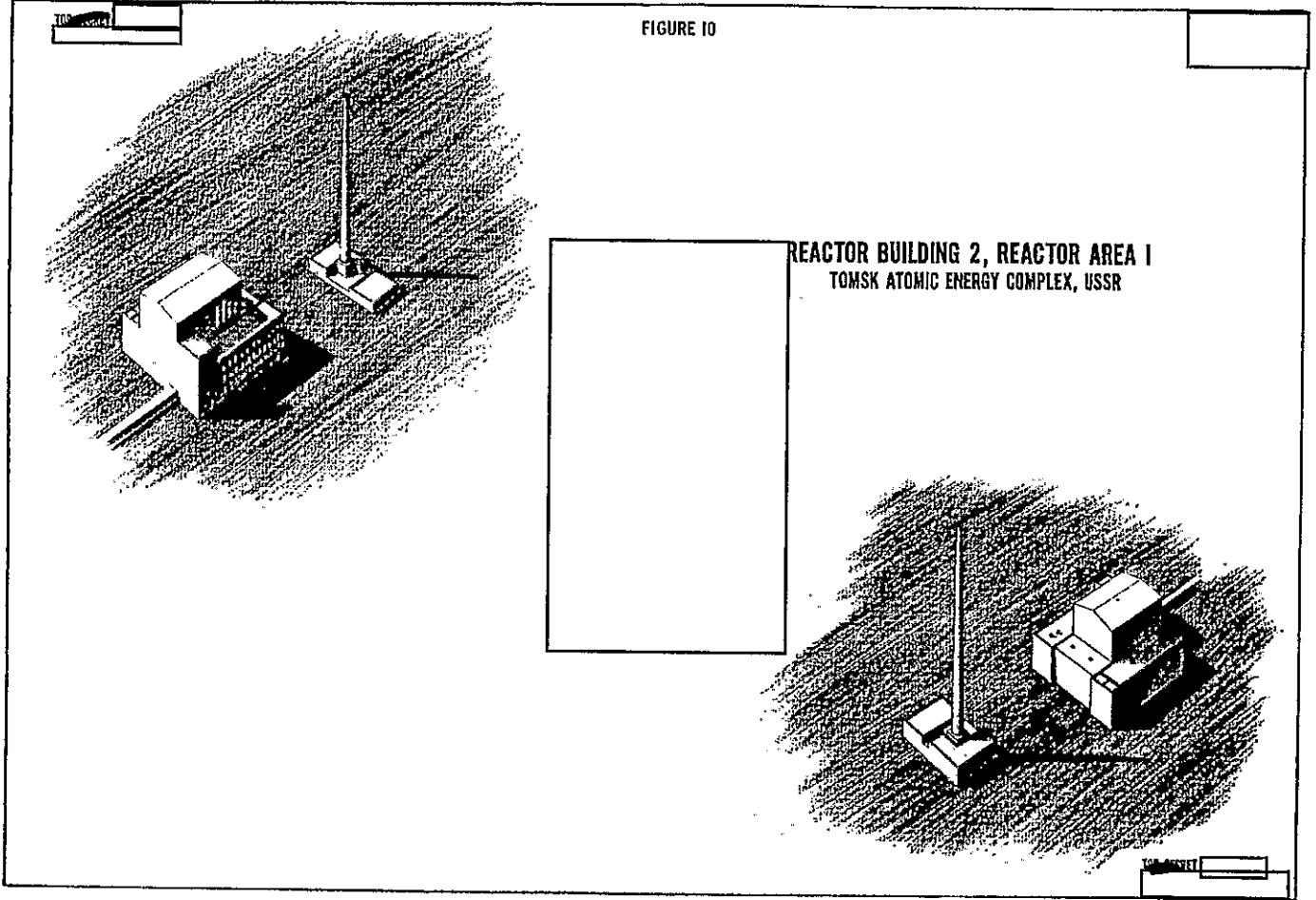
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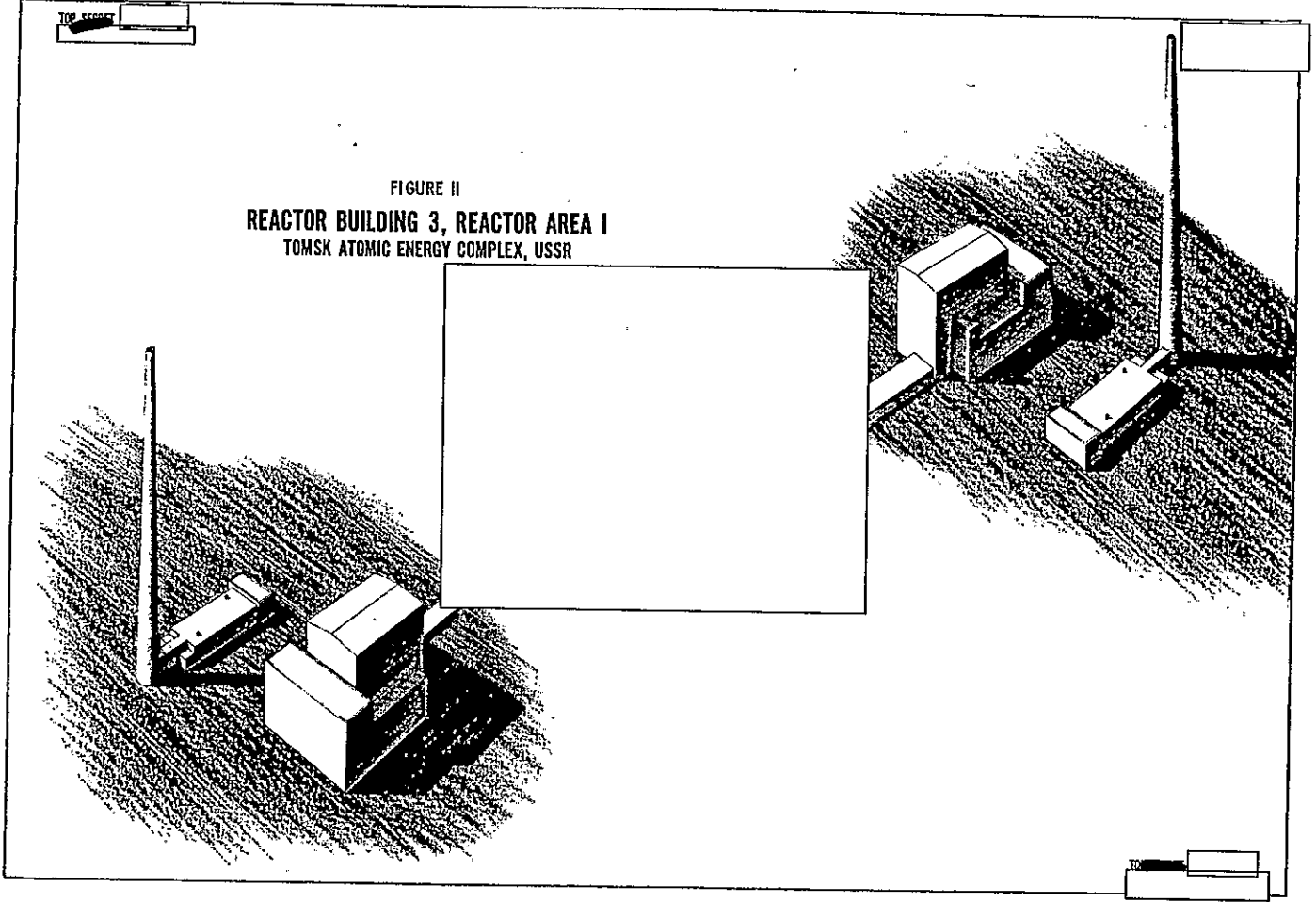


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FIGURE II  
**REACTOR BUILDING 3, REACTOR AREA I**  
TOMSK ATOMIC ENERGY COMPLEX, USSR

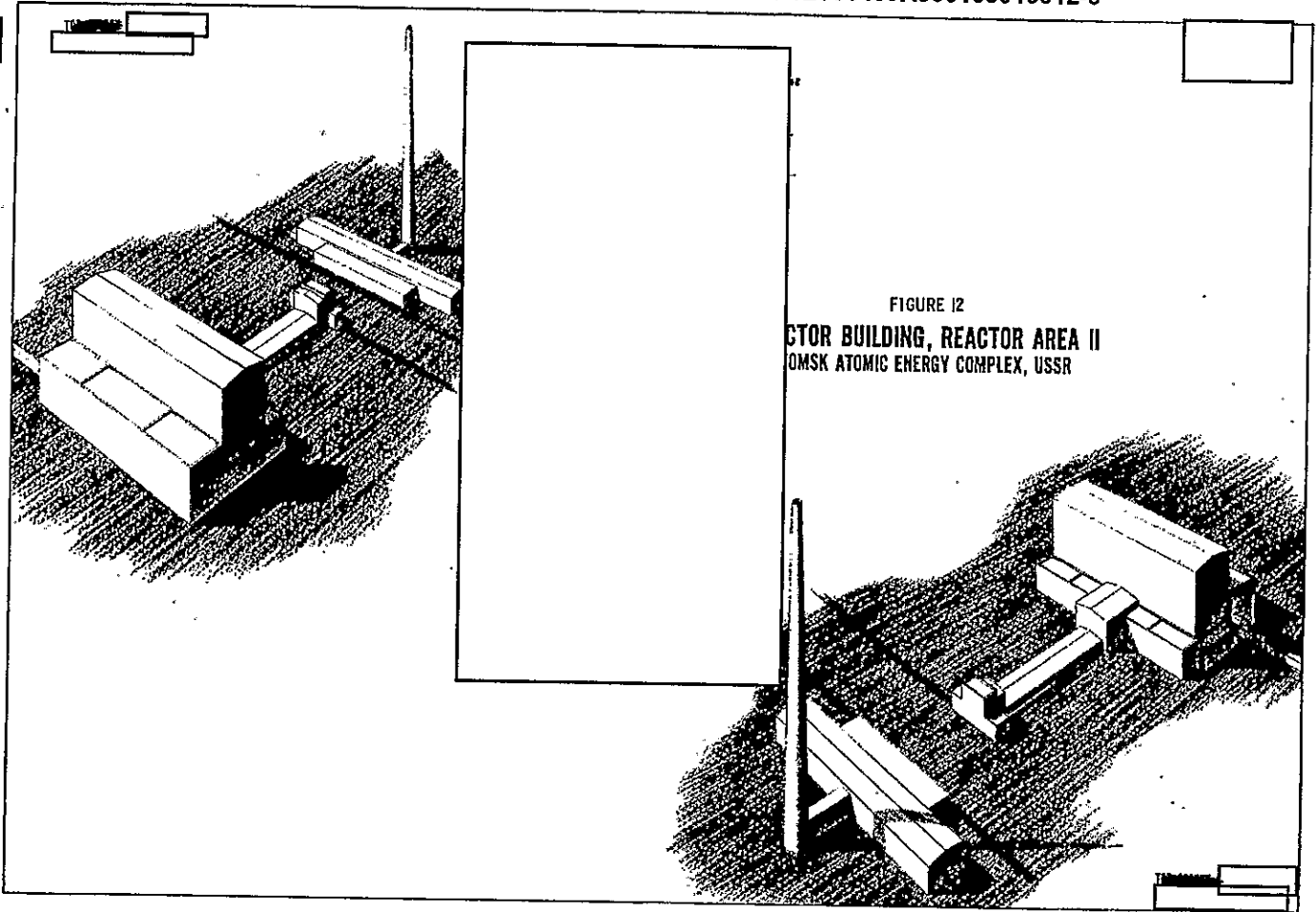
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