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PID/IB - 343/63
 29 November 1963
 Copy 1 of 8

MEMORANDUM FOR: Chief, Manufacturing and Services Division, ORR

ATTENTION : [REDACTED] MS/D 25X1

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Chungking (Ch'ung-Ch'ing) Arsenal Complex Study

REFERENCE : (1) ORR Requirement No. C-RR3-80,522/63
 (2) CIA/PID Project No. C 1416/63

1. This memorandum is in response to the referenced requirement which asks for a detailed analysis of arsenals in Chungking including the level of activity and expansion since [REDACTED] 25X1

2. Four probable arsenals, one explosives manufacturing and storage plant and a possible ballistic test facility were located in the environs of Chungking on [REDACTED] 25X1
 [REDACTED] There is no additional photo coverage which might be used to evaluate the expansion of the plants since [REDACTED] 25X1

These installations have been located on the enclosed map (CIA/PID/IB-P-777/63). Following is detailed analysis of each installation with references to accompanying annotated photo enlargements. Reference should be made to the photo enlargements for detailed building identification and square feet of roof cover.

3. The probable Chinese Communist Arsenal No. 256 and/or No. 456 also known as Nationalist Arsenal No. 21 (See Enclosure CIA/PID/IB-P-746/63) is located on the north bank of the Chi-ling Chiang (River) $1\frac{1}{2}$ nautical miles west of Chiang-pei, a suburb of Chungking, at 29 35N - 106 34E. The plant is served by a two-lane highway and by the Chi-ling Chiang (River). The plant, which is secured, has an approximate area of 175 acres. The major production buildings have a total roof area of approximately 768,500 square feet. This arsenal has sufficient potential, with its foundries, machine shops, final assembly-type buildings, and a nearby probable test facility for producing grenades, mortar shells, and small arms.

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GROUP 1
 Excluded from automatic
 downgrading and
 declassification

S-10156

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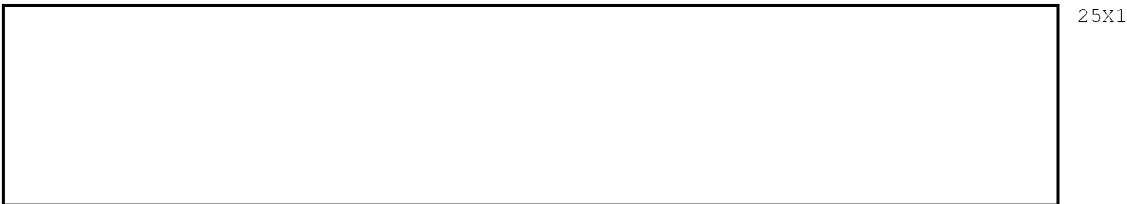


4. The Chungking Arsenal Probable Plant No. 451 (See Enclosure CIA/PID/IB-P-747/63), is situated on the west bank of the Chia-ling Chiang (River) 6.5 nm West northwest of Chungking at 29 36N - 106 27E.

This plant is connected by a two-lane improved highway with Chungking and by the Chi-ling Chiang (River). The installation is not rail served; however, a branch of the Chungking to Cheng-tu Railroad has been extended to 29 35N - 106 25E, approximately 2 nm SW of the plant.

The plant consists of a production area covering 85 acres, a combination storage and test area covering approximately 47 acres, and 2 storage areas covering 27 acres. An underground storage area with 4 underground entrances covers approximately 3 acres. All of the separate areas are well secured.

This plant with its machine shops, fabrication buildings and other support type buildings appears capable of producing small arms. Furthermore, the test ranges indicate that small arms probably are produced. This plant contains no foundry or forge; however, the proximity of the steel mill (See Photo CIA/PID/IB-P-747/63) should obviate the necessity for having either of them at the plant.



5. The Chung-shu-to Ordinance Plant No. 1 (See Enclosure CIA/PID/IB-P-748/63) is located 6 nautical miles north northwest of Chungking on the northeast side of the Chia-ling Chiang (River), at 29 35N - 106 28E. The plant, served by a two-lane improved road, is secured by a wall, and covers approximately 100 acres. The major buildings have a roof area of 321,600 square feet. The plant, with its probable foundry, machine shops and associated facilities has the potential for manufacturing and loading projectiles with the bursting charge (probable tetryl). Although there is no apparent direct connection between this plant and the production area of the Chung-shu-to Ordinance

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Plant No. 2, located 1 nautical mile to the east, there is direct access by road between Plant No. 1 and the explosive storage area and test ranges of the nearby Plant No. 2.

There is no comparable photo coverage to show expansion [redacted] 25X1
[redacted] however, photo coverage taken [redacted] shows 25X1
that this plant has been constructed since then. 25X1

6. The Chung-shu-to Ordinance Plant No. 2 (See Enclosure CIA/PID/IB-P-749/63) is located 4.5 nm west of Chungking on the northeast bank of the Chia-ling Chiang (River) at 29 34N - 106 29E. The plant is well secured, road served, and covers approximately 210 acres. The plant is served by a two-lane improved highway and by the Chia-ling Chiang (River) by means of a quay on the river, which is connected by road to the plant. Electric power is supplied by an electric sub-station located 5 nm to the west of the plant.

The plant, made up of numerous small buildings, appears to be limited in capacity and does not conform to the usual production flow patterns for ammunition loading plants. Although there is no comparable photography to show expansion of plant facilities [redacted] 25X1
[redacted] which reveals that the test ranges, secured storage area and almost 25X1
all of the plant together with its support buildings have been constructed since [redacted] 25X1

This installation is composed of 30 small machine shops/foundry-type buildings with approximately 123,000 square feet of roof area, 22 production buildings with approximately 51,000 square feet of roof area, and 31 storage buildings totaling approximately 45,000 square feet of roof area. The numerous additional buildings are primarily support type, most of which probably provide housing for the plant workers.

7. The Chungking Explosives Plant (See Enclosure CIA/PID/IB-P-750/63) is located at 9.5 nm north northwest of Chungking on the northwest bank of the Chia-ling Chiang (River) at 29 43N - 106 30E.

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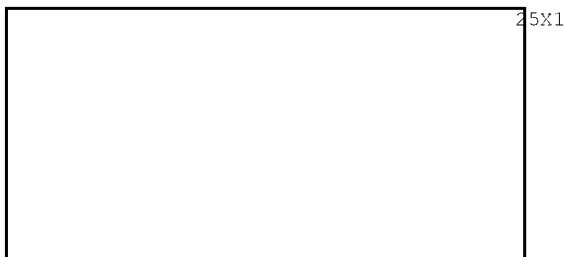
SUBJECT: Chungking Arsenal Complex Study

The plant, with a production area of 60 acres and a storage area of 20 acres is well secured and served by a two-lane improved highway.

There is no comparable photo coverage showing plant expansion between 25X1
 However, some of the buildings appear to be of relatively recent construction. There are few indicators to show plant activity. However the roads leading into the plant and storage area appear to be well used and the plant and storage buildings appear to be in good repair.

8. A possible ballistic test facility has been located approximately 2 nm south of Chungking at 29 32N - 106 34E. Available photographic materials fails to link this test facility with any one specific plant in the area. There are several plants in this general area that are probably capable of manufacturing small arms. If, at a later date, additional evidence may be obtained which will associate this possible test facility with any of the plants in the area, a memorandum will be submitted to your office at the earliest possible date.

9. The photo analysts on this project were Messrs. 25X1
 who may be contacted on extension 2547 should you have further questions regarding this project. This memorandum together with its six enclosures completes this requirement.



ENCLOSURES:

Five Annotated Photo Enlargements
 (CIA/PID/IB-P-746 thru P-750/63)
 One Annotated Map
 (CIA/PID/IB-P-777/63)

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Leading Facility

New Unidentified Plant U/C

19
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21

STUCKING ANIMAL NO. 230 AND/OR 550
7-377-106 3471

CLA/PID/IB-
72-749715

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LEGEND		
ANNOTATION NO.	IDENTIFICATION	SQUARE FEET ROOF COVER
1	Probable Machine Shop	69,250
2	Probable Machine Shop	22,625
3	Probable Machine Shop	17,000
4	Probable Machine Shop	10,925
5	Probable Foundry and Machine Shop	61,075
6	Probable Assembly and Storage	43,000
7	Probable Esker House	17,000
8	Probable Machine Shop	43,000
9	Probable Machine Shop	10,000
10	Probable Machine Shop	20,000
11	Probable Machine Shop	13,325
12	Probable Machine Shop	10,000
13	Probable Machine Shop	10,000
14	Probable Machine Shop	10,000
15	Probable Foundry	10,000
16	Probable Machine Shop	10,000
17	Probable Machine Shop	10,000
18	Probable Machine Shop	10,000
19	Probable Machine Shop	10,000
20	Probable Plant Assembly	10,000
21	Probable Plant Assembly	10,000

25X1



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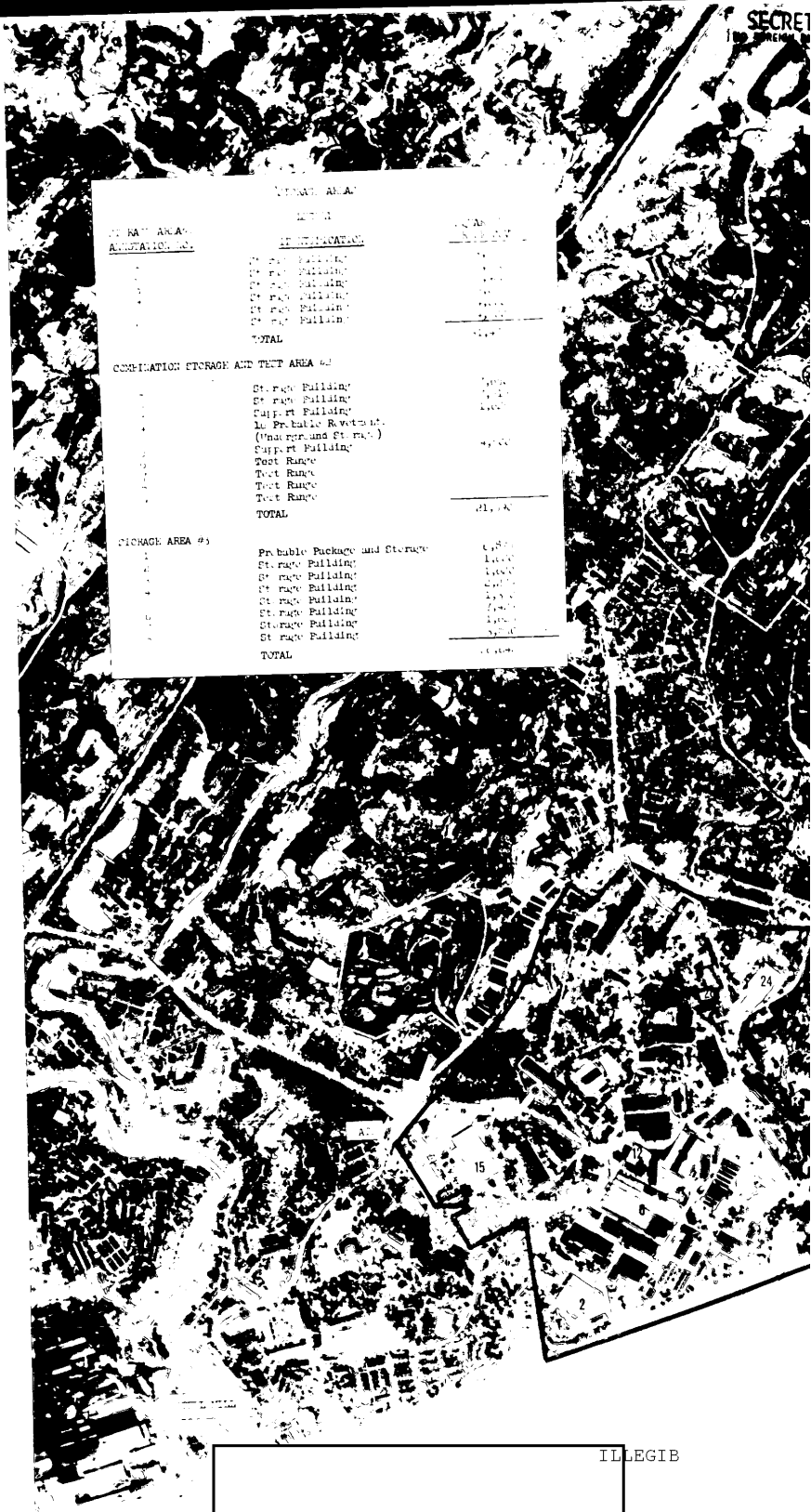
Loading Facility

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STANDARD AIRMAIL NO. 101 AND/OR 102
25X1
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STATION AREA		
STATION AREA	IDENTIFICATION	ACQUISITION
STATION AREA #1	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
TOTAL		60000
COMBINATION STORAGE AND TEST AREA #2		
STATION AREA #2	Storage Building	10000
	Storage Building	10000
	Support Building	10000
	10 Probable Rooms (Underground Storage)	10000
	Support Building	10000
	Test Range	10000
	Test Range	10000
	Test Range	10000
TOTAL		60000
STATION AREA #3		
STATION AREA #3	Probable Package and Storage	10000
	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
	Storage Building	10000
TOTAL		60000

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CHUNGKING EXPLOSIVE PLANT

LEGEND

ABBREVIATION NO.	IDENTIFICATION	STAIR CASE REF. (UW-4)
1	Warehouse	
2	Warehouse	
3	Filter House	
4	Support Building	
5	Support Building	
6	Electric Control Room	
7	Control House	
8	Warehouse	
9	Warehouse	
10	Support Building	
11	Processing Building (Bottle)	
12	Processing Building (Bottle)	
13	Processing Building	
14	Support Building	
15	Processing Building	
16	Support Building	
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