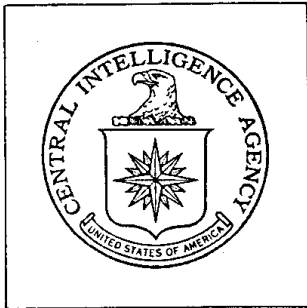
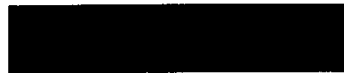


Top Secret



DIRECTORATE OF
INTELLIGENCE

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Selected Iron and Steel Plants

China



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RCS 13/0047/70

DATE MAY 1970

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report covers 43 iron and steel plants which represent all but a small percentage of the known iron and steel production facilities in China. It updates the information on 30 plants described in previous basic reports and includes the initial basic reporting on nine plants. Four other plants which were previously reported were either not covered or not seen on interpretable photography. The cutoff date for information in this report is March 1970.

During the period of this study, 1969-early 1970, 35 of the 43 plants were observed in operation. Of the four primary plants, those at Pao-tou, Shang-hai and Wu-han were observed in operation while the plant at An-shan was not seen during the reporting period.

Construction activity was observed at 22 plants, while no construction was seen at 17 plants. A large rolling mill was partially completed at Pao-tou, a large addition to a rolling mill was completed at Shih-ching-shan, the railroad car holding yard was completed at Shao-kuan, and an addition to the open hearth furnace building was under construction at Wu-han. At Lu-ta, one medium size blast furnace was completed and construction of another may be underway. Significant progress was observed at the large plant under construction at Jen-ho-chieh. Construction at the Chiu-chuan plant, previously observed proceeding at a fairly fast pace, appeared to have slowed.

Coverage of the Tai-yuan plant shows that the basic oxygen furnace building will contain four furnaces. No additional basic oxygen furnaces were identified under construction at any of the plants.

This report includes annotated photographs, mensuration of significant features, and discussion of the status and activity at those plants not previously reported. The update reports include a discussion of construction, level of production activity, and a photograph when better imagery than previously used was available.

INTRODUCTION

The majority of the Chinese iron and steel plants are located in the industrial north or along the Yangtze River east of Wu-han. Information relative to location, environment, and related installations is included with the individual descriptions of those plants not previously reported.

The length and width measurements indicated on the key to annotations when multiplied may not equal the corresponding square feet of roof cover. The area of roof cover was determined by taking into account all protrusions and accurately determining the total square feet. For brevity, the level of production activity is indicated as inactive (no visible signs of plant operation), low activity (up to 30 percent of the total plant facilities in operation), moderate activity (between 30 and 70 percent of the total plant facilities in operation), and high activity (from 70 to 100 percent of the total plant facilities in operation).

The approximate size of the blast furnaces was determined by comparative analysis. Blast furnaces are described as small (up to 150 tons/day), medium (200-700 tons/day), and large (700-1,300 tons/day).

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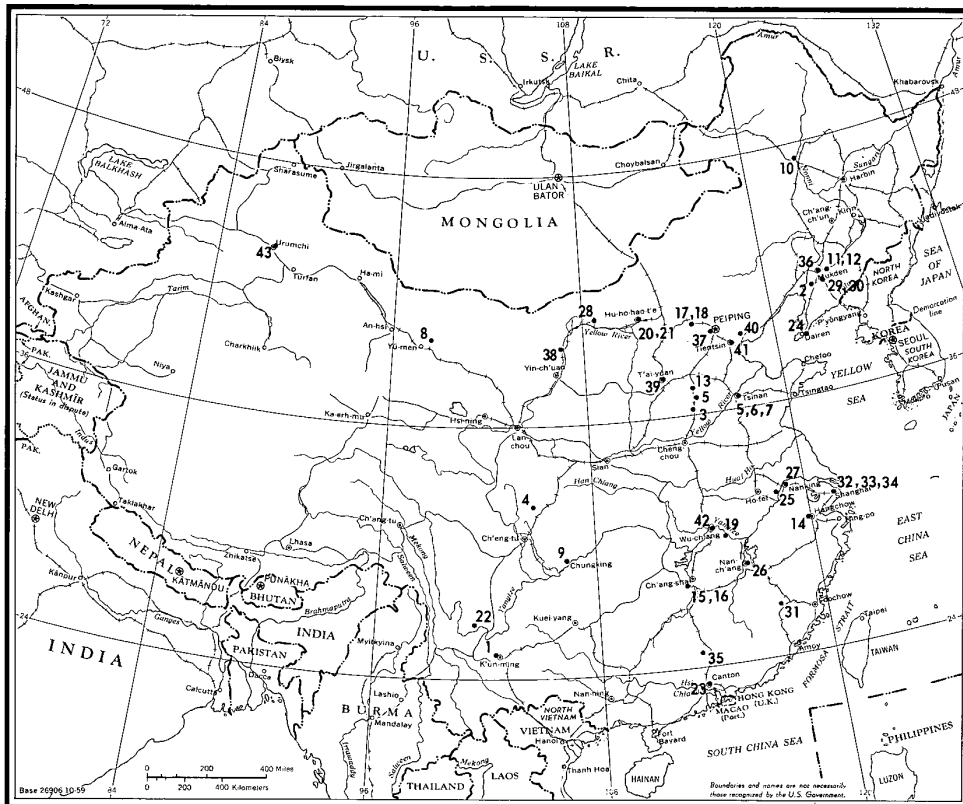


FIGURE 1. LOCATION MAP.

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The following list of the iron and steel plants included in this study is keyed to Figure 1.

1. An-ning Iron and Steel Plant Kun-ming.
2. An-shan Iron and Steel Plant.
3. An-yang Iron and Steel Plant.
4. Chiang-yu Iron and Steel Plant.
5. Chi-nan Iron Plant East.
6. Chi-nan Iron and Steel Plant.
7. Chi-nan Iron and Steel Plant Li-cheng.
8. Chiu-chuan Iron and Steel Plant.
9. Chung-ching Iron and Steel Plant No. 1.
10. Fu-la-erh-chi Steel Plant.
11. Fu-shun Iron and Steel Plant West.
12. Fu-shun Steel Plant.
13. Han-tan Iron and Steel Plant.
14. Hang-chou Iron and Steel Plant.
15. Hsiang-tan Iron and Steel Plant.
16. Hsiang-tan Iron Plant.
17. Hsuan-hua Iron and Steel Plant Lung-yen.
18. Hsuan-hua Iron Plant Lung-yen.
19. Huang-shih Iron and Steel Plant Ta-yeh.
20. Hu-ho-hao-te Iron and Steel Plant.
21. Hu-ho-hao-te Iron and Steel Plant Hsin-sheng.
22. Jen-ho-chieh Iron and Steel Plant U/C.
23. Kuang-chou Iron and Steel Plant.
24. Lu-ta Steel Plant.
25. Ma-an-shan Iron and Steel Plant.
26. Nan-chang Iron and Steel Plant.
27. Nan-ching Iron Plant Yung-li Steel.
28. Pao-tou Iron and Steel Plant Kun-tu-lun.
29. Pen-chi Iron and Steel Plant Kung-yuan.
30. Pen-chi Iron Plant.
31. San-ming Iron and Steel Plant.
32. Shang-hai Iron and Steel Plant No. 1.
33. Shang-hai Iron and Steel Plant No. 3.
34. Shang-hai Steel Plant No. 5.
35. Shao-kuan Non-ferrous Metals Plant.
36. Shen-yang Iron and Steel Plant.
37. Shih-ching-shan Iron and Steel Plant.
38. Shih-tsui-shan Iron and Steel Plant.
39. Tai-yuan Iron and Steel Plant.
40. Tang-shan Steel Plant.
41. Tien-ching Steel Plant No. 2.
42. Wu-han Iron and Steel Plant.
43. Wu-lu-mu-chi Iron and Steel Plant August 1.

Requirement

COMIREX NO1

Support Number 420442

Document Reference

CIA. RCS 13/0241/69, Selected Iron and Steel Plants, China, June 1969,

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TOP SECRET

25X1
23X1

TOP SECRET

INSTALLATION OR ACTIVITY NAME

COUNTRY

An-ning Iron and Steel Plant Kun-ming

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

25X1

48RTC466586

24-54-58N 102-29-40E*

MAP REFERENCE

ACIC. USATC, Series 200, Sheet M0496-17HL, 3rd ed, Jan 68, Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (if required)

16 December 1969, KH 1108-2

NA

*The coordinates given in the Data Block are from the Basic Encyclopedia and should be changed to 24-54-30N 102-29-30E. Action has been initiated to have the Basic Encyclopedia corrected.

BASIC DESCRIPTION

Construction of the coke oven battery at the An-ning Iron and Steel Plant has been completed since February 1969, the date of the latest photography used in the previous report. The iron ore pelletization plant and the by-product coke section have also probably been completed. No other changes were evident within the plant area. The previously reported unidentified building remained incomplete.

Moderate activity was observed on 16 December 1969.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
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An-shan Iron and Steel Plant	CH
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UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TVF998535	41-08-14N 122-59-54E	

MAP REFERENCE
 15th RTS. USATC, Series 200, Sheet 0289-20HL, 2nd ed, Mar 63, Scale 1:200,000
 (SECRET)

LATEST IMAGERY USED	NEGATION DATE (If required)
--	NA

NOTICE

There has been no photographic coverage of the An-shan Iron and Steel Plant since November 1968, the date of the latest photography used in the previous report.

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INSTALLATION OR ACTIVITY NAME

COUNTRY

An-yang Iron and Steel Plant

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

50SKR551001

36-07-20N 114-17-01E

25X1

MAP REFERENCE

15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000

(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (If required)

NA

25X1

BASIC DESCRIPTION

An-yang Iron and Steel Plant is located approximately 3.5 nm west-northwest of the walled portion of An-yang. The plant is rail and road served, secured by a wall, and occupies an irregular shaped area of approximately 4,600 by 2,600 feet (Figure 2). The An-yang Thermal Power Plant is located to the west-northwest.

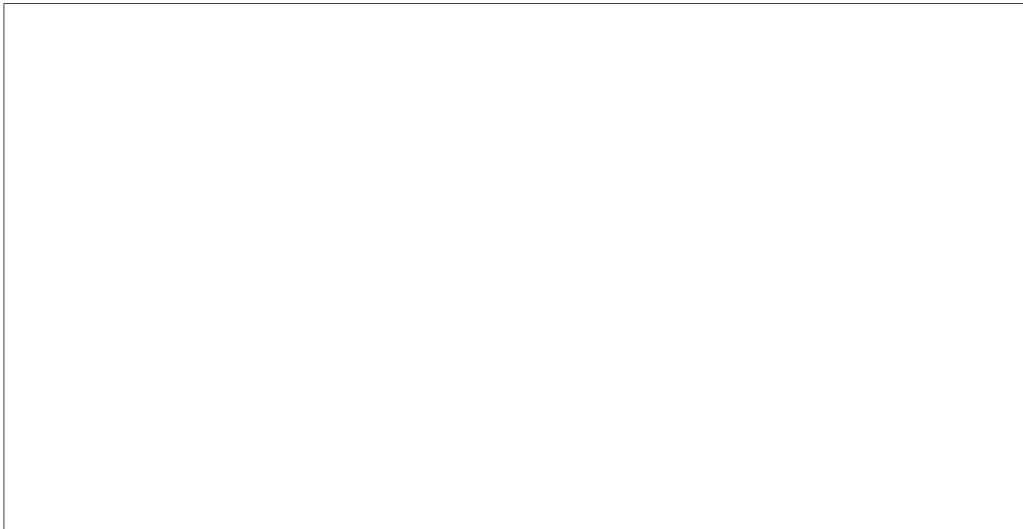
25X1

The iron and steel plant contains two by-product coke oven batteries under construction, a probable coke by-products section under construction, two medium-size blast furnaces, a side-blown converter shop, three rolling mills, a probable finishing mill, a fire brick plant, a foundry, a large storage building, an administration building, numerous storage/support buildings, and unidentified buildings under construction.

Most of the iron and steel producing facilities were complete when the plant was observed in April 1966. The two by-product coke oven batteries and the associated probable coke by-products section were first observed under construction in November 1967. By December 1969, they were in the mid-stage of construction. An unidentified building (Item 10) was first observed under construction in December 1968. Modifications to another unidentified building (Item 8) were first observed in January and were continuing in December 1969.

A moderate level of activity was observed at the plant on the referenced imagery.

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Key to Annotations

<u>Item No.</u>	<u>Description</u>	<u>Dimensions (Ft)</u>	<u>Roof Cover (Sq Ft)</u>	<u>Remarks</u>
1	By-product Coke Oven Batteries (2), U/C			First observed under construction in November 1967, mid- stage of construction December 1969
2	Probable Coke By-products Section U/C			First observed under construction in November 1967, mid- stage of construction December 1969
3	Blast Furnaces (2)			Medium
4	Steampant			
5	Rolling Mill and Probable Side-blown Converter Shop	Irregular	127,460	
	a. Probable Side-blown Converter Shop	400 x 135		2 Probable converters and 2 cupola furnaces
	b. Rolling Mill			
6	Probable Foundry	280 x 70	19,000	1 Stack
7	Fire Brick Plant	Irregular	24,800	
8	Unidentified Building	380 x 50	19,000	Modification first ob- served in January 1969.
9	Transformer Substation			2 Transformers
10	Unidentified Building U/C			First observed in December 1968, con- struction progressing slowly when observed in December 1969
11	Rolling Mill	720 x 135	108,600	2 Stacks
12	Probable Finishing Mill	Irregular	41,250	2 Adjacent stacks
13	Rolling Mill	Irregular	117,115	
	a. Blooming/Slabbing	380 x 75		2 Stacks
	b. Rolling Mill			1 Stack
	c. Rolling Mill			
14	Storage Building	296 x 90	26,100	
15	Foundry	255 x 95	24,225	2 Furnaces, crane served
16	Administration Building	Irregular	74,840	4 Story

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Chiang-yu Iron and Steel Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		25X1
48RVL777144	31-45-47N 104-45-50E		
MAP REFERENCE			25X1
548H [redacted] USATC, Series 200, Sheet M0495-3HI 1st ed. Nov. 66 Scale			25X1
		1:200,000 (SECRET)	25X1
LATEST IMAGERY USED		NEGATION DATE (If required)	
[redacted]		NA	25X1

BASIC DESCRIPTION

No changes have been observed at the Chiang-yu Iron and Steel Plant since November 1968, the date of the latest imagery used in the previous report.

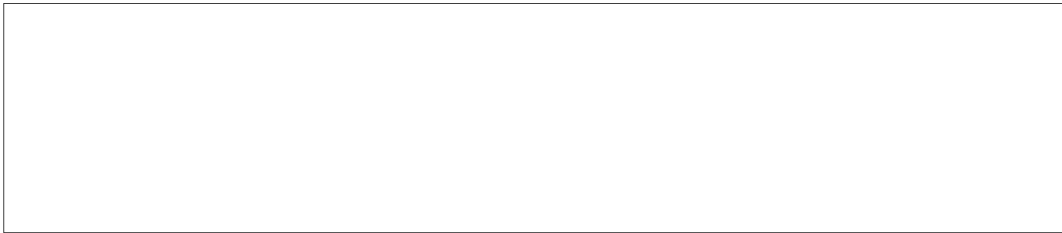
Large-scale coverage of November 1969 permitted the identification of a wall separating the iron and steel plant from the fabrication building and an unidentified building under construction north of the plant (Figure 3). The latter facilities appear to be some type of light fabrication industry which may utilize some of the iron or steel produced at the adjacent plant.

Within the iron and steel plant, a producer gas plant (Item 3) has been identified. The previously reported fabrication building has been identified as a foundry (Item 2) and the transformer substation (Item 1) has been firmly identified. Because of the nearby transformer substation and the absence of large associated stacks, the previously identified possible electric furnace building is now considered probable (Item 4).

A low level of activity was observed at the plant on the referenced imagery.

Key to Annotations

<u>Item No.</u>	<u>Description</u>
1	Transformer Substation
2	Foundry
3	Producer Gas Plant
4	Probable Electric Furnace Building



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4 SMALL BLAST FURNACES

FIGURE 4. CHI-NAN IRON PLANT EAST,

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TOP SECRET

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Chi-nan Iron Plant East

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

25X1

50SNR113630

36-42-40N 117-07-30E

MAP REFERENCE

8th RTS. USATC, Series 200, Sheet M0381-21HL, 4th ed, Sep 69, Scale 1:200,000

(SECRET)

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

Chi-nan Iron Plant East is located approximately 7 nm east-northeast of the center of the city of Chi-nan. The plant is road and rail served and secured by a wall and possible fence. It occupies an irregular shaped area of approximately 4,200 by 1,350 feet. The plant is connected by rail to the Chi-nan Iron and Steel Plant Li-cheng approximately 2.3 nm to the east-northeast.

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The plant contains four small blast furnaces and several support buildings (Figure 4). No changes to the facilities were observed between December 1966 and December 1969.

A low level of activity was observed at the plant in December 1966 and September 1968 and a moderate level of activity in December 1969.

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FIGURE 5. CHI-NAN IRON AND STEEL PLANT,

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INSTALLATION OR ACTIVITY NAME			COUNTRY	
Chi-nan Iron and Steel Plant			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.
50SNR083585	36-40-15N 117-05-30E		None	None
MAP REFERENCE				
8th RTS. USATC, Series 200, Sheet M0381-21HL, 4th ed, Sept 69, Scale 1:200,000				
(SECRET)				
LATEST IMAGERY USED		NEGATION DATE (if required)		
		NA		

BASIC DESCRIPTION

Chi-nan Iron and Steel Plant is located approximately 5 nautical miles east of the center of the city of Chi-nan. The plant is road and rail served, partially secured by a wall, and occupies an irregular shaped area of approximately 3,000 by 2,500 feet (Figure 5).

The plant contains two beehive coke oven batteries, four small blast furnaces, a side-blown converter shop, one forge/foundry, two probable foundries, one rolling mill, and one probable rolling mill under construction.

The major production facilities were complete in December 1966. An addition to the converter shop was constructed between October 1967 and July 1968. Construction began on the probable rolling mill between September 1968 and October 1969 and it was in a mid-stage when last observed in December 1969.

A moderate level of activity was observed at the plant on the referenced imagery.

Key to Annotations

Item No.	Description	Dimensions (Ft)	Roof Cover (Sq Ft)	Remarks
1	Beehive Coke Oven Batteries (2)			
2	Probable Rolling Mill Under Construction	966 x 190	182,400	Mid-stage of construction
3	Rolling Mill	Irregular	43,970	
4	Side-blown Converter Shop	440 x 150	66,000	Two cupola and two converter furnaces
5	Blast Furnaces (2)			Small
6	Blast Furnaces (2)			Small
7	Probable Foundries (2)	250 x 45 345 x 60	11,250 20,700	
8	Forge/Foundry	Irregular	41,685	

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FIGURE 6. CHI-NAN IRON AND STEEL PLANT LI-CHENG

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chi-nan Iron and Steel Plant Li-cheng		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SNRI 50646	36-43-35N 117-10-00E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0381-21HL, 4th ed, Sep 69, Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

Chi-nan Iron and Steel Plant Li-cheng is located 9 nm east-northeast of the center of the city of Chi-nan. The plant is road and rail served, partially secured by a wall, and occupies an irregular shaped area of approximately 4,500 by 3,500 feet. The Chi-nan Chemical Fertilizer Plant is located immediately to the west.

25X1

The iron and steel plant contains a rolling mill, a probable rolling mill, a side-blown converter shop, two small blast furnaces, two probable fabrication buildings, a probable foundry, a probable ore processing facility, a coke by-products section, and a by-product coke oven battery (Figure 6).

The plant components were complete in December 1966 except for the probable ore processing facility, coke by-products section and the by-product coke oven battery. These facilities had advanced to a late stage of construction when observed in December 1969.

A moderate level of activity was observed from October 1966 through December 1969.

Key to Annotations

Item No.	Description	Dimensions (Ft)	Roof Cover (Sq Ft)	Remarks
1	Rolling Mill	1,055 x 150	158,655	
2	Probable Rolling Mill	430 x 55	24,790	
3	Side-blown Converter Shop	605 x 120	72,600	At least two converter furnaces
4	Blast Furnaces (2)			Small
5	Probable Fabrication Building	390 x 140	54,600	
6	Probable Foundry	310 x 95	29,450	
7	Probable Fabrication Building	Irregular	38,650	
8	Probable Ore Processing Facility Under Construction			
9	Coke By-products Section Under Construction			
10	By-product Coke Oven Battery Under Construction			

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Chiu-chuan Iron and Steel Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
47SMQ395081	39-48-55N 098-17-23E

25X1

MAP REFERENCE
 ACIC. USATC, Series 200. Sheet M0332-3HL. 3rd ed. Dec 68. Scale 1:200,000
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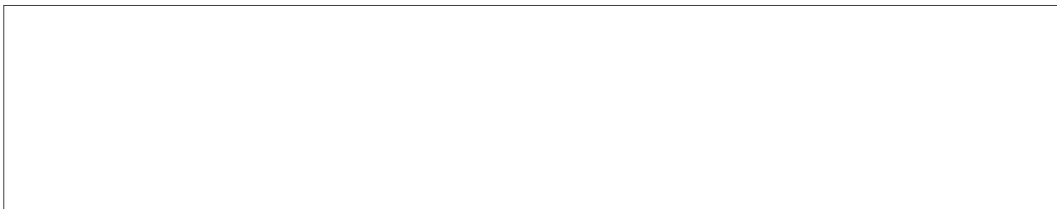
LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

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BASIC DESCRIPTION

The Chiu-chuan Iron and Steel Plant has not been completed and construction has progressed slowly since September 1968, the date of the latest imagery used in the previous report. Only minor progress was observed at the ore concentration plant, blast furnace, by-product coke oven batteries, and coke by-products section. The thermal power plant had advanced to a late stage of construction by March 1970. Of the six buildings previously reported under construction elsewhere in the plant progress was evident at only one. Steel production facilities have not been identified at the plant, but they will probably be constructed later.

No production facilities were observed in operation on the referenced imagery.



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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chung-ching Iron and Steel Plant No. 1		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
48RXH444632	29-29-05N 106-29-30E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0495-19HL, 3rd ed, Mar 68, Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
--	NA	

NOTICE

There has been no coverage of the Chung-ching Iron and Steel Plant No. 1 since March 1969, the date of the latest photography used in the referenced report.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Fu-la-erh-chi Steel Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TWN468260	47-11-30N 123-37-07E	

MAP REFERENCE	25X1
2nd RTS. USATC, Series 200, Sheet M0283-6HL, 3rd ed, Sep 69, Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

BASIC DESCRIPTION

No changes have been observed at the Fu-la-erh-chi Steel Plant since November 1968, the date of the latest photography used in the referenced report.

A high level of activity was observed at the plant on the referenced imagery.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Fu-shun Iron and Steel Plant West		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
51TWG640325	41-50-20N 123-46-00E	None	None

25X1

MAP REFERENCE

[Redacted] USATC, Series 200, Sheet M0290-IIHL, 4th ed, Jan 66, Scale 1:200,000
(SECRET)

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LATEST IMAGERY USED	NEGATION DATE (If required)
[Redacted]	NA

25X1

NOTICE

The poor quality of the imagery of the Fu-shun Iron and Steel Plant West since November 1968, the date of the latest imagery used in the previous report, precludes an analysis of the plant



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INSTALLATION OR ACTIVITY NAME		COUNTRY
Fu-shun Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TWG668322	41-50-11N 123-48-04E	
MAP REFERENCE		25X1
[] USATC, Series 200, Sheet M0290-11HL, 4th ed., Jan 66, Scale 1:200,000		25X1
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
[]	NA	

25X1

NOTICE

The poor quality of the imagery of the Fu-shun Steel Plant since April 1969, the date of the latest imagery used in the previous report, precludes an analysis of the plant.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Han-tan Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SKR726528	36-35-50N 114-27-00E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

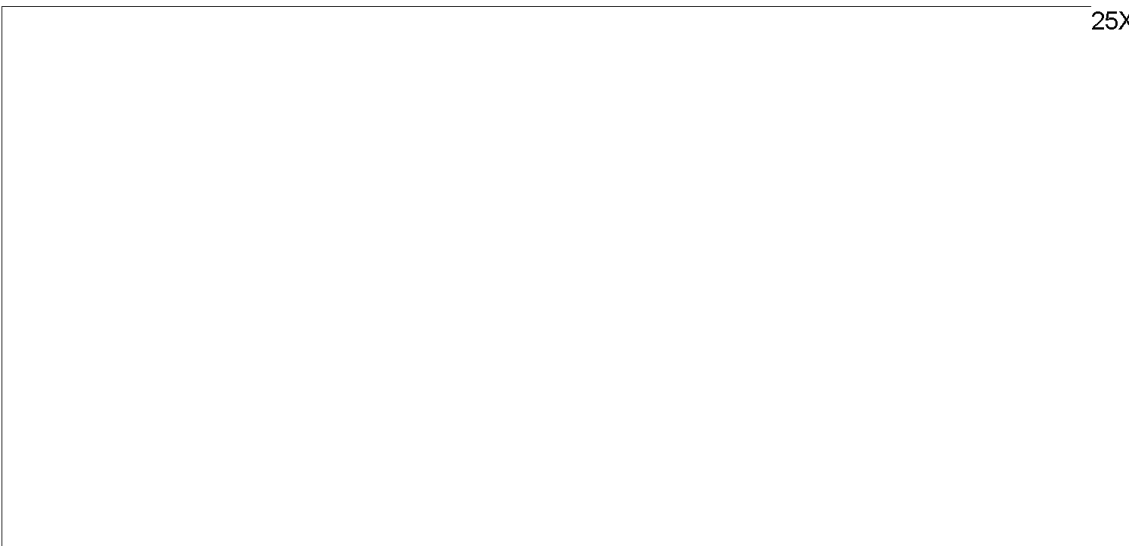
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BASIC DESCRIPTION

Han-tan Iron and Steel Plant is located in the southwestern part of Han-tan. The plant is road and rail served, secured by a wall, and occupies an irregular shaped area of approximately 4,100 by 4,000 feet (Figure 7). A small iron plant is located approximately 2.7 nm to the northwest, at 36-37N 114-24E, and may be associated with the Han-tan Iron and Steel Plant. The iron plant contains two small blast furnaces and two beehive coke oven batteries.

Construction of Han-tan Iron and Steel Plant began prior to April 1966. When the plant was observed in April 1966, the probable fire brick plant, side-blown converter shop, six small blast furnaces, two medium size blast furnaces, probable foundry, transformer substation, fabrication building and a storage building were complete. By June 1968 a probable iron ore sintering and concentration plant had been constructed. Facilities under construction in December 1969 included two by-product coke oven batteries, a coke by-products section, two rolling mills and a probable steam plant. The six small blast furnaces at the east side of the plant were never observed complete.

A moderate level of activity was observed at the plant from April 1966 through June 1968 and a high level from November 1968 through December 1969.



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Key to Annotations

<u>Item No.</u>	<u>Description</u>	<u>Dimensions (Ft)</u>	<u>Roof Cover (Sq Ft)</u>	<u>Remarks</u>
1	Blast Furnaces (6) (incomplete)	-	-	Not operational in April 1966
2	Unidentified Building U/C	300 x 60	18,000	Construction started between June and November 1968
3	Probable Fire Brick Plant	325 x 35	10,605	-
4	Side-blown Converter Shop	290 x 55	15,950	2 Cupola and 2 converter furnaces
5	Rolling Mill U/C	610 x 55	40,085	Construction started between April and November 1966
6	Blast Furnaces (6)	-	-	Small
7	Rolling Mill U/C	585 x 105	52,300	Construction started prior to April 1966. Partly operational prior to August 1969
8	Probable Foundry	315 x 85	34,215	
9	Transformer Substation	-	-	4 Transformers
10	Fabrication Building	Irregular	34,630	
11	Blast Furnaces (2)	-	-	Medium
12	Probable Steamplant U/C	-	-	Construction started between October 1967 and June 1968
13	Probable Iron Ore Sintering and Concentration Plant	-	-	Completed between April 1966-June 1968
14	Storage Building	315 x 80	25,200	
15	By-product Coke Oven Batteries (2) U/C	-	-	Construction started prior to April 1966
16	Coke By-products Section U/C	-	-	Construction started between November 1966 and October 1967

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Hang-chou Iron and Steel Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
51RTD272622	30-21-30N 120-09-40E

25X1

MAP REFERENCE
 15th RTS. USATC, Series 200, Sheet MO492-11HL, 4th ed, May 69, Scale 1:200,000
 (SECRET)

25X1

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

BASIC DESCRIPTION

An unidentified building has been under construction in the northeastern part of Hang-chou Iron and Steel Plant since February 1969, the date of the latest imagery used in the previous report. Site preparations for this building were first evident in February 1969 and the building was nearing completion in December 1969. No other changes to the plant have been observed.

A low level of activity was observed at the plant in December 1969. Raw materials and finished products were seen in the storage yards.



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INSTALLATION OR ACTIVITY NAME	COUNTRY
Hsiang-tan Iron and Steel Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49RFA877783	27-48-50N 112-54-30E	

MAP REFERENCE	25X1
15th RTS. USATC, Series 200, Sheet M0497-5HL, 2nd ed. Nov 65, Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

BASIC DESCRIPTION

No changes have been observed at the Hsiang-tan Iron and Steel Plant since February 1969, the date of the latest imagery used in the previous report. Construction has apparently been suspended on the probable open-hearth furnace building. Little progress has been observed since January 1967.

A low level of activity was observed at the plant on the referenced imagery. No smoke or steam was evident; however, raw materials and finished products were identified in the storage yards.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Hsiang-tan Iron Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49RFA818953	27-58-10N 112-50-55E	

MAP REFERENCE
 15th RTS. USATC, Series 200, Sheet M0497-5HL, 2nd ed, Nov 65, Scale 1:200,000
 (SECRET)

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

BASIC DESCRIPTION

No changes have been observed at the Hsiang-tan Iron Plant since February 1969, the date of the latest imagery used in the previous report. The plant remains incomplete and has undergone no significant change since it was first seen on photography of March 1962.

No activity was observed at the plant on the referenced imagery.

[Redacted area]

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hsuan-hua Iron and Steel Plant Lung-yen		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50TUK373949	40-35-30N 115-04-15E	
MAP REFERENCE		
15th RTS. USATC, Series 200. Sheet M0289-21HL. 5th ed. Aug 68. Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

No changes have been observed at the Hsuan-hua Iron and Steel Plant Lung-yen since February 1969, the date of the latest photography used in the previous report.

A moderate level of activity was observed at the plant on the referenced imagery.

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[Redacted]

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25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Hsuan-hua Iron Plant Lung-yen		CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50TLK347950	40-35-31N 115-02-26E	

MAP REFERENCE
 15th RTS. USATC, Series 200, Sheet M0289-21W, 5th ed, Aug 68, Scale 1:200,000
 (SECRET)

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
[Redacted]	NA	

BASIC DESCRIPTION

No changes have been observed at the Hsuan-hua Iron Plant Lung-yen since February 1969, the date of the latest photography used in the previous report.

A moderate level of activity was observed at the plant on the referenced imagery.

[Redacted]

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[Redacted]

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Huang-shih Iron and Steel Plant Ta-yeh	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RLJ197429	30-12-15N 115-07-23E	

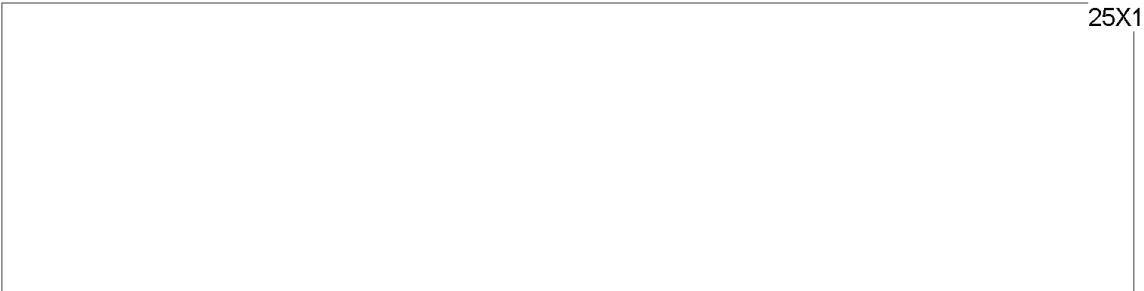
MAP REFERENCE	25X1
2nd RTS. USATC, Series 200, Sheet M0493-IIHL, 4th ed, Jul 68, Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

BASIC DESCRIPTION

An unidentified building is being constructed in the eastern section of Huang-shih Iron and Steel Plant. Footings for this building were observed in December 1969 and January 1970. No other construction activity has been observed at the plant since September 1968, the date of the latest imagery used in the previous report.

A high level of activity was observed on the referenced imagery.





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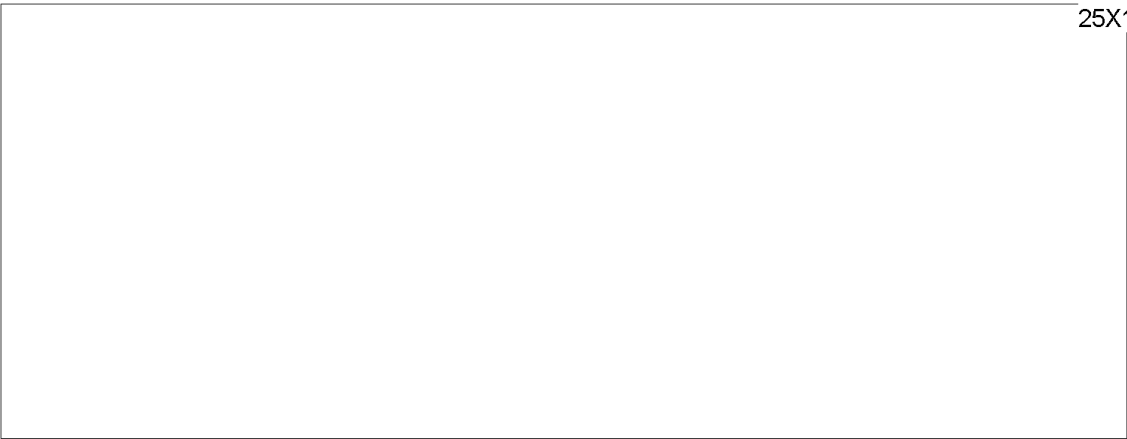
INSTALLATION OR ACTIVITY NAME		COUNTRY	
Hu-ho-hao-te Iron and Steel Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		25X1
49TER509171	40-48-05N 111-36-10E		
MAP REFERENCE			
15th RTS. USATC, Series 200, Sheet M0288-18HL, 2nd ed, Feb 65, Scale 1:200,000			
(SECRET)			25X1
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	25X1

BASIC DESCRIPTION

The Hu-ho-hao-te Iron and Steel Plant is located 3.5 nautical miles west-southwest of the center of the walled section of Hu-ho-hao-te. The plant is road and rail served, partially secured by a wall, and occupies an area approximately 4,700 by 2,200 feet. The Hu-ho-hao-te Thermal Power Plant is located immediately to the south and the Hu-ho-hao-te Iron and Steel Plant Hsin-sheng is 2 nautical miles to the northeast.

The iron and steel plant contains a fire brick plant, seven beehive coke oven batteries, four blast furnaces, one side-blown converter shop, three rolling mills, and numerous storage/support buildings (Figure 8).

A low level of activity was observed at this plant on the referenced imagery. The beehive coke oven batteries appear to be inactive and the blast furnaces have not been observed in operation. However, there is activity at the plant as indicated by changes in the number of rail cars.



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Key to Annotations

<u>Item No.</u>	<u>Description</u>	<u>Dimensions (Ft)</u>	<u>Roof Cover (Sq Ft)</u>	<u>Remarks</u>
1	Rolling Mill	Irregular	97,745	-
2	Blast Furnaces (4)	-	-	Small
3	Side-blown Converter Shop	350 x 120	42,000	2 cupola furnaces 2 converter furnaces
4	Fire Brick Plant	Irregular	17,800	
5	Rolling Mill	575 x 75	36,240	
6	Rolling Mill	945 x 65	87,840	
7	Beehive Coke Ovens (7) Batteries	-	-	Appear to be inactive

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Hu-ho-hao-te Iron and Steel Plant Hsin-sheng*		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
49TER530198	40-49-28N 111-37-43E	None	None
MAP REFERENCE			
15th RTS. USATC, Series 200, Sheet M0288-18HL, 2nd ed, Feb 65, Scale 1:200,000			
(SECRET)		25X1	
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	

*This plant has no steel making facilities and its name should be changed to the Hu-ho-hao-te Iron Plant Hsin-sheng. Action has been initiated to have the Basic Encyclopedia corrected.

BASIC DESCRIPTION

Hu-ho-hao-te Iron Plant Hsin-sheng is located in the western section of Hu-ho-hao-te and is road and rail served. The plant occupies two separately secured areas, each approximately 1,600 by 1,300 feet in size.

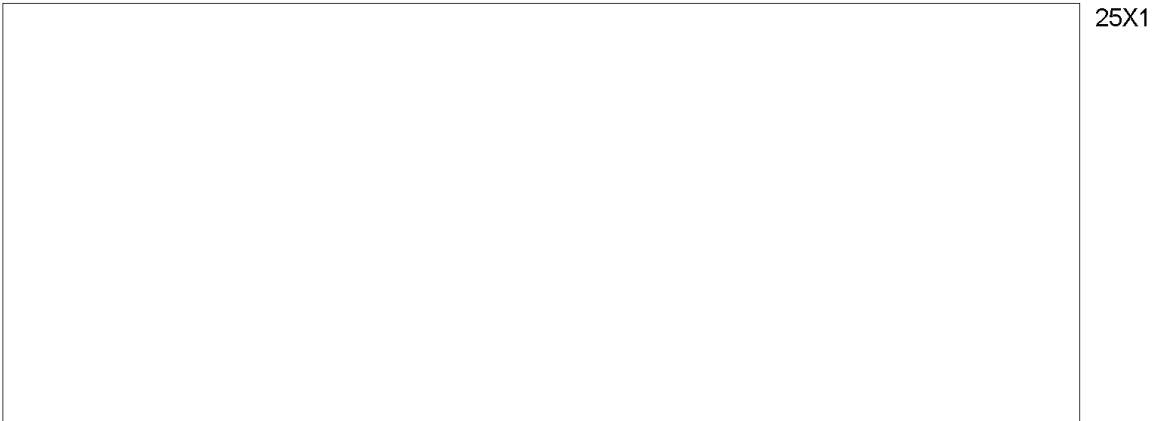
One of the two plant areas contains eight blast furnaces. The other area contains two by-product coke oven batteries and a small coke by-products section (Figure 9).

When the plant was first seen on photography in February 1966, the eight blast furnaces were complete, and the by-product coke ovens and coke by-products section were under construction. By March 1970, one by-product coke oven battery and the coke by-products section were complete but the second by-product coke oven battery remained under construction.

A low level of activity was observed at the plant on the referenced imagery. One blast furnace was observed operating in August and November 1969.

Key to Annotations

Item No.	Description	Remarks
1	Blast Furnaces (8)	Small
2	By-product Coke Oven Battery (2)	One under construction
3	Coke By-products Section	Battery U/C



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INSTALLATION OR ACTIVITY NAME		COUNTRY
Jen-ho-chieh Iron and Steel Plant U/C		CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	BE NUMBER	COMIREX NO.	NIETB NO.
47RQV6742	26-34-24N 101-41-00E	None	None	None

25X1

MAP REFERENCE
AMS. Series L500, Sheet NG47-8, 1st ed, 1954, Scale 1:250,000
(Unclassified)

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

BASIC DESCRIPTION

Jen-ho-chieh Iron and Steel Plant is under construction in the mountainous terrain of southwest China, 104 nautical miles north-northwest of Kun-ming. The plant is located on the north bank of the Chin-sha River approximately 5 nm northwest of Jen-ho-chieh. The iron and steel plant is an integral part of an industrial complex covering approximately 50 square miles. The complex, which is road and rail served, also contains two power plants, a cement plant, an iron ore concentration plant, and several mining and support areas.

The iron production facilities under construction within the plant include a blast furnace (probable medium size), footings for an undetermined number of additional blast furnaces, a coke by-products section, two by-product coke oven batteries, four large unidentified buildings, raw material storage yards, and an unidentified facility (Figure 10). A fabrication building has been constructed within the construction support area. Storage tanks and pipe utilized in construction are assembled here. Footings for additional buildings have been observed. Facilities for the production of steel and finished materials have not been identified within this area of the industrial complex; however, they will probably be constructed later.

Construction associated with the iron production facilities has been evident since November 1965 when a few support buildings were observed. By January 1967, the support area had been enlarged and site preparations for the plant were underway. Construction of the by-products coke oven batteries, coke by-products section and four unidentified buildings was started between April 1967 and March 1968. The fabrication building was completed during this period. Between December 1968 and March 1969 construction of the blast furnaces and the unidentified facility was started, and the raw materials storage yard was evident in April 1969. The coke by-products section was nearing completion in January 1970.

Plant construction has progressed slowly, probably due to the absence of rail service. Until January 1970 the area was accessible only by roads. Between September 1969 and January 1970, however, through rail service from Kun-ming was completed. With the completion of the rail line from Kun-ming, construction of the plant should proceed more rapidly.

Key to Annotations

Item	Description	Remarks
1	Blast Furnace	Probable medium size
2	By-product Coke Oven Batteries (2)	
3	Unidentified Buildings (4)	
4	Graded Area	Construction sites
5	Fabrication Building	
6	Coke By-products Section	Nearing Completion
7	Raw Materials Storage Yards (2)	
8	Unidentified Facility	

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Kuang-chou Iron and Steel Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49QGR298525	23-04-03N 113-14-43E	

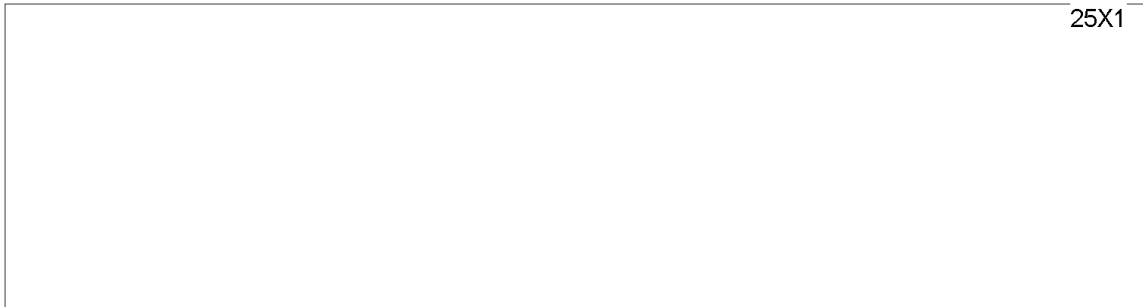
MAP REFERENCE	25X1
548th RTG. USATC, Series 200, Sheet M0614-6HL, 5th ed. May 68. Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

BASIC DESCRIPTION

Construction has been observed at the Kuang-chou Iron and Steel Plant since November 1968, the date of the latest imagery used in the previous report. Two support buildings have been constructed adjacent to the previously identified fabrication building. This fabrication building now can be identified as a ladle car repair facility. Ladle cars have been observed on the rail spur which extends through the building. The probable foundry can now be confirmed as a foundry, probably containing several electric furnaces. No stack is observed adjacent to the foundry, but smoke has been vented through the roof monitors. The possible forge shop is not complete as previously reported. Construction on this building has apparently been suspended and one end of the building has not been finished.

A moderate level of activity was observed at the plant on the referenced imagery. The foundry and the medium size blast furnace were observed operating for the first time on the August 1969 imagery.



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INSTALLATION OR ACTIVITY NAME	COUNTRY
Lu-ta Steel Plant*	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51SUD796132	38-57-42N 121-36-27E	

MAP REFERENCE
 15th RTS. USATC, Series 200, Sheet M0381-10HL, 3rd ed, May 63, Scale 1:200,000
 (SECRET)

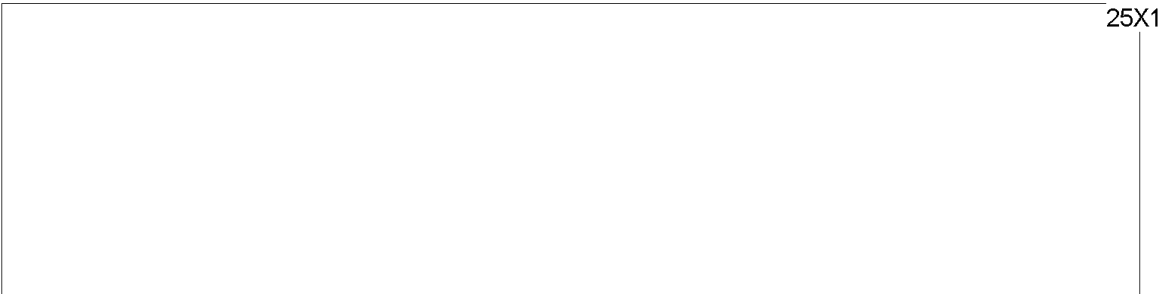
LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

*Action has been initiated to change the name of this plant in the Basic Encyclopedia to Lu-ta Iron and Steel Plant.

BASIC DESCRIPTION

One medium size blast furnace has been constructed in the southern portion of the plant since February 1969, the date of the latest photography used in the referenced report. Construction of the blast furnace was started between April and October 1969, and by January 1970 it was either complete or nearing completion. Construction activity which may represent the start of a second blast furnace was also observed in January 1970. No other changes have been observed at the plant.

A high level of activity was observed at the plant on the referenced photography.



Document

CIA. RCS 13/0258/69, Lu-ta Steel Plant, Lu-ta, China, June 1969,

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Ma-an-shan Iron and Steel Plant		CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RPL397106	31-43-01N 118-28-44E	

MAP REFERENCE	25X1
8th RTS. USATC, Series 200, Sheet M0493-4HL, 4th ed, Apr 68. Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

BASIC DESCRIPTION

An excavation for a small unidentified building was begun between October and December 1969 in the northeast section of this plant, adjacent to one of the side-blown converter shops. It is the only significant construction since February 1969, the date of the latest imagery used in the previous report.

A high level of activity was observed at the plant on the latest imagery.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Nan-chang Iron and Steel Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
50RMC016686	28-38-38N 115-59-30E

25X1

MAP REFERENCE
 2nd RTS. USATC, Series 200, Sheet M0493-22HL, 4th ed, May 68, Scale 1:200,000
 (SECRET/

25X1

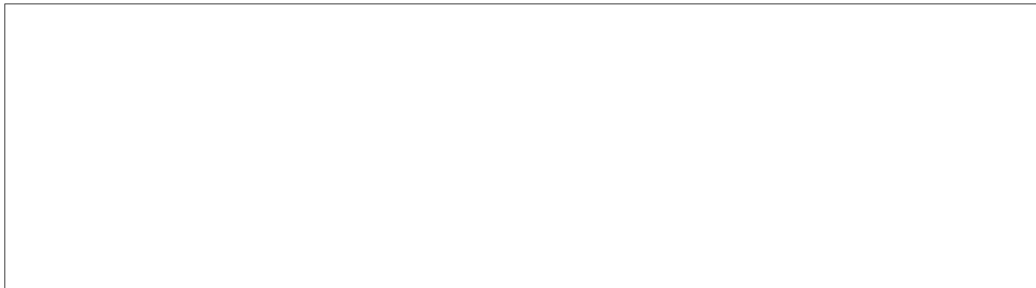
LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

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BASIC DESCRIPTION

No changes have been observed at the Nan-chang Iron and Steel Plant since November 1968, the date of the latest imagery used in the previous report. The two rolling mills and two unidentified buildings previously observed under construction did not appear complete as of December 1969.

A low level of activity was observed at the plant on the referenced imagery.



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INSTALLATION OR ACTIVITY NAME	COUNTRY
Nan-ching Coking Plant Yung-li Steel*	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SPL647652	32-12-12N 118-44-55E	

MAP REFERENCE	25X1
2nd RTS. USATC, Series 200, Sheet M0386-22HL, 3rd ed. Sep 67. Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

*Action has been initiated to change the name of this plant in the Basic Encyclopedia to Nan-ching Iron and Steel Plant Yung-li.

BASIC DESCRIPTION

One unidentified building has been constructed in the southwestern section of the Nan-ching plant since November 1968, the date of the latest photography used in the previous report.

A moderate level of activity was observed at the plant in December 1969.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Pao-tou Iron and Steel Plant Kun-tu-lun	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
49TCR944002	40-39-01N 109-44-53E

25X1

MAP REFERENCE
2nd RTS. USATC, Series 200, Sheet MO288-22HL, 3rd ed, Aug 68, Scale 1:200,000 (SECRET)

25X1

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

BASIC DESCRIPTION

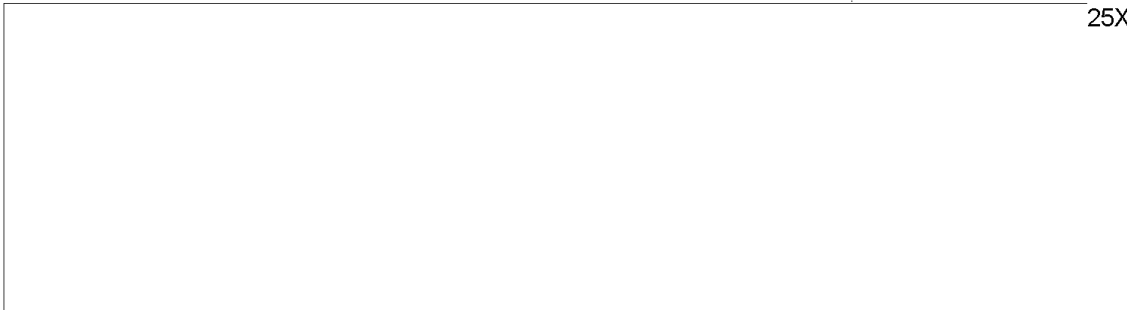
Significant construction has occurred at the Pao-tou Iron and Steel Plant Kun-tu-lun since February 1969, the date of the latest imagery used in the previous report. A large rolling/finishing mill (Figure 11, Item 3) was started between February and May 1969, and was about 40 to 50 percent complete when observed in September 1969. A possible air separation plant (Item 1) has been identified in the late stage of construction; this facility was begun prior to 1965. The rolling mill addition (Item 4) previously observed under construction appears to be complete; however, the absence of stored materials adjacent to this rolling mill indicates that it is not operating. Unidentified construction activity (Item 2) is evident in the southeastern area of the plant. Construction has progressed at a slow rate on the addition to the open-hearth furnace building (Item 5) and the unidentified building under construction (Item 6), and neither facility has been completed.

A high level of activity was observed at the plant on the referenced imagery.

Key to Annotations

Item	Description	Dimensions (Ft)	Roof Cover (Sq Ft)
1	Possible Air Separation Plant	-	-
2	Unidentified Construction	-	-
3	Rolling/Finishing Mill	1,130 x 400	452,000
4	Rolling Mill Addition	1,330 x 380	505,400
5	Open-hearth Furnace Addition	240 x 165	39,600
6	Unidentified Building Under Construction	-	-

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Pen-chi Iron and Steel Plant Kung-yuan	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
51TWF614693	41-16-48N 123-44-20E

MAP REFERENCE
USATC, Series 200, Sheet M0290-16HL, 4th ed. Jul 65. Scale 1:200,000 (SECRET)

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

BASIC DESCRIPTION

No changes have been observed at the Pen-chi Iron and Steel Plant Kung-yuan since March 1969, the date of the latest photography used in the previous report.

A high level of activity was observed at this plant on the referenced imagery.



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INSTALLATION OR ACTIVITY NAME	COUNTRY
Pen-chi Iron Plant	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TWF636738	41-19-13N 123-45-48E	

MAP REFERENCE	25X1
[Redacted] USATC, Series 200, Sheet M0290-16HL, 4th ed, Jul 65, Scale 1:200,000 (SECRET)	25X1

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
[Redacted]	NA	

BASIC DESCRIPTION

No changes have been observed at the Pen-chi Iron Plant since March 1969, the date of the latest photography used in the previous report.

A high level of activity was observed at the plant on the referenced imagery.



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FIGURE 12. SAN-MING IRON AND STEEL PLANT

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INSTALLATION OR ACTIVITY NAME		COUNTRY
San-ming Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RNE610048	26-15-38N 117-36-44E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0498-14HL, 3rd ed, Dec 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

San-ming Iron and Steel Plant is located 1 nm north of San-ming (San-yuan) on the west bank of the Sha Chi (River). The plant is road and rail served, partially secured by a wall, and occupies an irregular shaped area of approximately 7,000 by 4,000 feet. The San-ming Heat and Thermal Power Plant is collocated with the iron and steel plant.

The plant contains two small blast furnaces, a side-blown converter shop, three rolling mills, two probable fabrication buildings, an ore processing facility, a coke handling facility, and numerous storage/support buildings (Figure 12).

Most of the major production components, including the blast furnaces, side-blown converter, and one rolling mill, were observed complete in September 1963. The ore processing and coke handling facilities were completed by August 1965. The two probable fabrication buildings and the rolling/blooming mill were completed by January 1967. Only one production component, the third rolling mill, was still under construction when the plant was last observed on December 1969 photography.

A low level of activity was observed at the plant on imagery from September 1963 through January 1967. Between September 1968 and December 1969 a moderate level of activity was observed.

Key to Annotations

Item No.		Dimensions (Ft)	Roof Cover (Sq Ft)	Remarks
1	Rolling/Blooming Mill	450 x 105 290 x 115	47,250 33,350	Soaking pits are probably located at the northeast end of mill
2	Side-blown Converter Shop	415 x 115	47,725	At least 3 converters
3	Blast Furnaces (2)			Small
4	Blower House			
5	Rolling Mill U/C	540 x 100	54,000	Under construction approximately 70% complete
6	Probable Fabrication Building	490 x 165	80,850	
7	Probable Fabrication Building	405 x 105	42,525	
8	Rolling Mill	440 x 120	52,800	
9	Heat and Thermal Power Plant			
10	Ore Processing and Coke Handling Facility			

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Shang-hai Iron and Steel Plant No. 1

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

51RUE553687

31-21-02N 121-28-52E

25X1

MAP REFERENCE

2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed. Dec 68. Scale 1:200,000

(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (If required)

NA

25X1

BASIC DESCRIPTION

No changes have been observed at Shang-hai Iron and Steel Plant No. 1 since March 1969, the date of the latest imagery used in the previous report.

A high level of activity was observed at the plant on the referenced imagery.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
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Shang-hai Iron and Steel Plant No. 3*

CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
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51RUE549523	31-11-29N 121-28-40E
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MAP REFERENCE

2nd RTS. USATC, Series 200, Sheet M0492-7HL, 3rd ed. May 68. Scale 1:200,000

(SECRET)

LATEST IMAGERY USED

NEGATION DATE (If required)

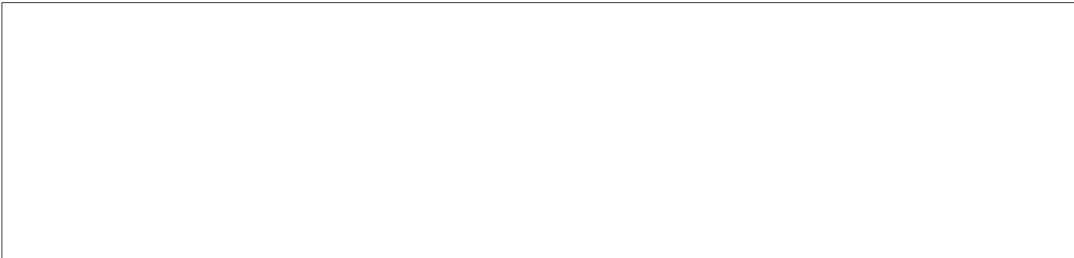
NA

*The name of this facility should be the Shang-hai Steel Plant, as iron is not being produced. Action has been initiated to have the Basic Encyclopedia corrected.

BASIC DESCRIPTION

No changes have been observed at the Shang-hai Steel Plant No. 3 since March 1969, the date of the latest photography used in the previous report.

A high level of activity was observed at the plant on the referenced imagery.



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INSTALLATION OR ACTIVITY NAME

COUNTRY

Shang-hai Steel Plant No. 5

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

25X1

51RUE552737

31-23-08N 121-28-49E

MAP REFERENCE

2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000

(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

25X1

BASIC DESCRIPTION

Two of the three buildings observed under construction at this plant in March 1969 have been completed, while construction of the third building appears to have been suspended. The completed building east of the open hearth building is a probable forge shop (approximately 220 by 160 feet) and the building north of the side-blown converter shop is a storage building (approximately 300 by 80 feet).

A moderate level of activity was observed at the plant on the referenced imagery.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shao-kuan Non-ferrous Metals Plant*		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49RGT654330	24-41-52N 113-37-30E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet 0498-2IHL, 1st ed, Mar 62, Scale 1:200,000 (SECRET)		

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

*Action has been initiated to change the name of this plant in the Basic Encyclopedia to the Shao-kuan Iron and Steel Plant Ma-pa.

BASIC DESCRIPTION

Construction has continued at the Shao-kuan Iron and Steel Plant since February 1969, the date of the latest imagery used in the previous report.

In October 1969 an unidentified building was observed in an early stage of construction in the east area of the plant. By December 1969 a nine-track railroad holding yard had been completed between the eastern and western plant sections. A second blast furnace (Figure 13, Item 7) previously observed under construction appeared to be nearing completion, and a third blast furnace (Item 6) was in an early stage of construction. In addition, two new by-product coke oven batteries (Item 3) were newly identified; one was complete or nearing completion, and the other was under construction.

The two previously unidentified buildings in the eastern section of the plant have been identified as a steam plant (Item 4) and cooling towers with associated spray ponds (Item 5).

A moderate level of activity was evident at this plant on the referenced imagery. In October 1969, the rolling mill (Item 8) was observed in operation for the first time and a reactivated blast furnace (Item 1) in the western section of the plant was operating.

What appeared to be smoke was observed over the by-product coke oven battery, but no smoke was coming from the stack.

Key to Annotations

<u>Item No.</u>	<u>Description</u>	<u>Remarks</u>
1	Blast Furnace	Small
2	Railroad Holding Yard	
3	By-product Coke Oven Batteries (2)	
4	Steam Plant	
5	Cooling Towers and Spray Pond	
6	Blast Furnace Under Construction	
7	Blast Furnace	Medium
8	Unidentified Building Under Construction	
9	Rolling Mill	

25X1

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TOP SECRET

25X1

INSTALLATION OR ACTIVITY NAME	COUNTRY
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Shen-yang Iron and Steel Plant	CH
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UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
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51TWG423306	41-49-49N 123-30-24E	
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MAP REFERENCE	
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	USATC, Series 200. Sheet M0290-IIHL, 4th ed, Jan 66, Scale 1:200,000	25X1
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	(SECRET)	25X1
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LATEST IMAGERY USED	NEGATION DATE (if required)
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	NA	25X1
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BASIC DESCRIPTION

No changes have been observed at the Shen-yang Iron and Steel Plant since November 1968, the date of the latest imagery used in the previous report.

A high level of activity was observed at the plant on the referenced imagery.

	25X1
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TOP SECRET

25X1

TOP SECRET

25X1



FIGURE 14. SHIH-CHING-SHAN IRON AND STEEL PLANT.

25X1

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25X1

TOP SECRET

INSTALLATION OR ACTIVITY NAME	COUNTRY
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Shih-ching-shan Iron and Steel Plant

CH

25X1

UTM COORDINATES

GEOGRAPHIC COORDINATES

50SMV278179

39-54-23N 116-09-15E

MAP REFERENCE

ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000

(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

25X1

BASIC DESCRIPTION

A large addition to a rolling mill has been constructed at the Shih-ching-shan Iron and Steel Plant since January 1969, the date of the latest imagery used in the previous report. The addition is approximately 1,285 by 170 feet and was in a late stage of construction when observed in December 1969 (see Figure 14). No other changes were observed within the plant area.

A high level of activity was observed at the plant on the referenced imagery.

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25X1

TOP SECRET

INSTALLATION OR ACTIVITY NAME

COUNTRY

Shih-tsui-shan Iron and Steel Plant

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

48SXU554340

39-09-00N 106-48-00E*

MAP REFERENCE

USATC, Series 200, Sheet 0383-4HL, 1st ed, Oct 62, Scale 1:200,000
(CONFIDENTIAL)

LATEST IMAGERY USED

NEGATION DATE (If required)

NA

*The geographic coordinates should be changed to 39-18-45N 106-47-15E. Action has been initiated to have the Basic Encyclopedia changed.

BASIC DESCRIPTION

No changes have been observed at the Shih-tsui-shan Iron and Steel Plant since December 1968, the date of the latest imagery used in the referenced report.

No activity has been observed at this plant since it was seen on March 1963 photography. The operational status of the plant could not be determined.

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Tang-shan Steel Plant

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

25X1

50SPJ037886

39-38-11N 118-12-06E

MAP REFERENCE

USATC, Series 200, Sheet M0381-2HL, 2nd ed, Jan 64, Scale 1:200,000

25X1

(SECRET)

25X1

LATEST IMAGERY USED

NEGATION DATE (If required)

25X1

BASIC DESCRIPTION

No changes have been observed at the Tang-shan Steel Plant since December 1968, the date of the latest photography used in the previous report. The possible forge and support buildings previously observed under construction have apparently not been completed, although the small scale of the referenced imagery may have precluded the identification of changes.

A moderate level of activity was observed at the plant on the referenced imagery.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tien-ching Steel Plant No. 2		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SNU231260	39-04-57N 117-16-02E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0381-6HL, 3rd ed, May 64, Scale 1:200,000		25X1
(SECRET)		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

Between February and December 1969, modification was completed on the western side of the building which housed the side-blown converter shop at Tien-ching Steel Plant No. 2. The blower system, three converter furnaces and a section of the building's roof were removed, beginning sometime between [redacted] 25X1

When observed in December 1969, the roof of the building had been replaced. The present function of this building cannot be determined.

A moderate level of activity was observed at the plant on the referenced imagery. The basic oxygen furnace was not observed in operation, but ladle cars were observed within the immediate area of the basic oxygen furnace.

[redacted]	25X1
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INSTALLATION OR ACTIVITY NAME	COUNTRY
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Wu-lu-mu-chi Iron and Steel Plant August I	CH
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UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
45TWJ232546	43-50-30N 087-17-20E	

MAP REFERENCE
2nd RTS. USATC, Series 200, Sheet M0330-3HL, 3rd ed, Jun 69, Scale 1:200,000
(SECRET) 25X1

LATEST IMAGERY USED	NEGATION DATE (if required)	25X1
	NA	

BASIC DESCRIPTION

No changes have been observed at the Wu-lu-mu-chi Iron and Steel Plant since February 1969, the date of the latest photography used in the previous report.

A moderate level of activity was observed at the plant on the referenced imagery.

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