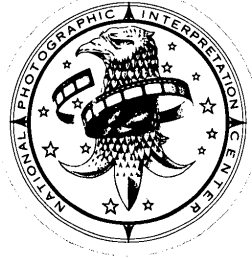


~~TOP SECRET~~

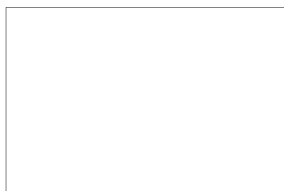
25X1



**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER**

**KUN-MING HF COMMUNICATIONS
FACILITIES, CHINA**



~~TOP SECRET~~

25X1

25X1



**DECEMBER 1974
COPY NO. 122
23 PAGES
PIR-073/74**

Page Denied

TOP SECRET RUFF

25X1

25X1

PHOTOGRAPHIC INTERPRETATION REPORT

KUN-MING HF COMMUNICATIONS FACILITIES, CHINA

DECEMBER 1974

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

TOP SECRET RUFF

25X1

25X1

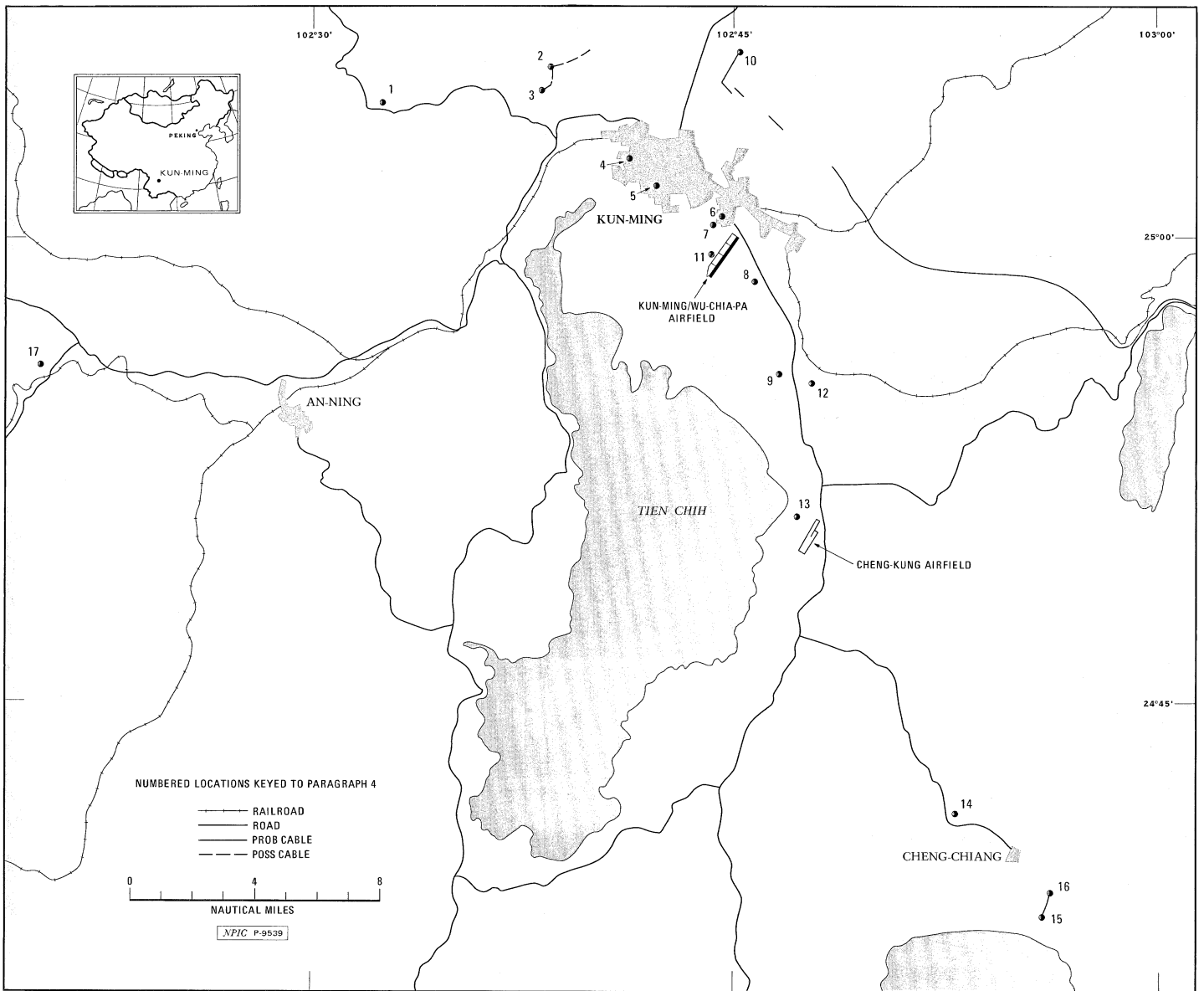


FIGURE 1. LOCATIONS OF HF COMMUNICATIONS FACILITIES IN THE VICINITY OF KUN-MING, CHINA

KUN-MING HF COMMUNICATIONS FACILITIES, CHINA

ABSTRACT

1. This report discusses 17 of 20 high frequency communications facilities in the area around Kun-ming, China. The other three facilities were discussed in a previous NPIC report entitled *Kun-ming Communications Complex*.

2. This report describes each facility and includes a map, eight annotated photographs, and 13 tables which include all pertinent mensural data obtainable on the antennas at these facilities.

INTRODUCTION

3. Of the 17 high frequency (HF) communications facilities described in this report, 13 are within a 12-nautical-mile (nm) radius of Kun-ming; three facilities are near the town of Cheng-chiang, 25 nm southeast of Kun-ming; and one is near An-ning, 15 nm southwest of Kun-ming (Figure 1). Although one of the facilities, Cheng-chiang HF Communications Facility 2, was described in a previous report,¹ it has been included in this report because of significant changes.

4. The 13 installations in the vicinity of Kun-ming city are:

Kun-ming Radio Communications (Radcom) Receiver Station Northwest (item 1, Figure 1)

Kun-ming Radcom Transmitter Station Northwest (item 2)

Kun-ming Radcom Station Northwest (item 3)

Kun-ming Radcom Transmitter Station Southwest (item 4)

Kun-ming Military Region Headquarters (item 5)

Kun-ming Communications Facility (item 6)

Kun-ming/Wu-chia-pa Possible Electronics Facility (item 7)

Kun-ming Radcom Station Wu-chia-pa Airfield Southeast (item 8)

Kun-ming Radcom Receiver Station Southeast (item 9)

Kun-ming Radcom Transmitter Station Northeast (item 10)

Kun-ming/Wu-chia-pa Airfield (item 11)

Cheng-kung Transmitter Station North (item 12)

Cheng-kung HF Communications Facility (item 13)

The installations near the towns of Cheng-chiang and An-ning are:

Cheng-chiang Radcom Station (item 14)

Cheng-chiang HF Communications Facility 2 (item 15)

Cheng-chiang Military Headquarters Area (item 16)

An-ning HF Communications Facility (item 17)

5. Three additional HF communications facilities in the Kun-ming vicinity were described in the previous report.¹ These facilities are: Cheng-chiang HF Communications Facility [redacted] [redacted] Cheng-chiang HF Communications Facility 3 [redacted] and An-ning Radcom Receiver [redacted].

TOP SECRET RIIF

25X1
25X1

DESCRIPTIONS OF FACILITIES

INSTALLATION OR ACTIVITY NAME			COUNTRY	
Kun-ming Radcom Receiver Station Northwest			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	
NA	25-04-18N 102-32-29E		None	

25X1

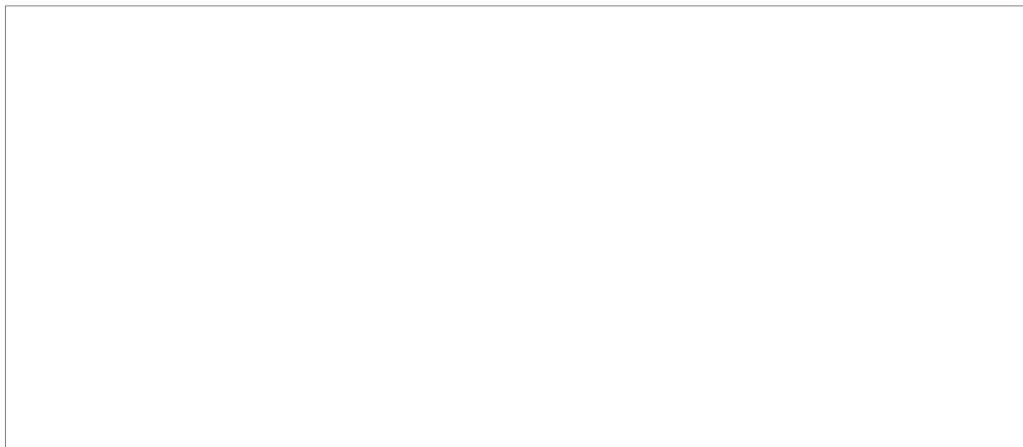
MAP REFERENCE

DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

		NEGATION DATE (If required)
		NA

25X1

6. The facility is 9 nm west-northwest of Kun-ming and consists of a fence-secured operations/support area and an antenna field (Figure 2 and Table 1). The operations/support area contains one multiwing control building, one administration building, five barracks, one probable messhall, a guardhouse, and three support buildings. The antenna field is south of the operations/support area and contains seven rhombic, three quadrant, and five horizontal dipole antennas. Feedlines observed in most of the rhombic antennas indicate a transmitting capability.



25X1

TOP SECRET RIIF

25X1

25X1

Page Denied

Next 1 Page(s) In Document Denied

25X1

TOP SECRET RUFF

25X1

INSTALLATION OR ACTIVITY NAME

COUNTRY

Kun-ming Radcom Transmitter Station Northwest

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

COMIREX NO.

25X1

NA

25-05-41N 102-38-34E

None

MAP REFERENCE

DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

LATEST IMAGERY USED

NEGATION DATE (if required)

25X1

NA

7. The installation (Figure 3 and Table 2) is 3.5 nm northwest of Kun-ming. It consists of an operations/support area and an antenna field. The wall-secured operations/support area contains one probable control building, one quarters, three housing or support buildings, and six support buildings. The antenna field is east of the operations/support area and contains one rhombic and 24 horizontal dipole antennas. In October 1972 a trench, possibly for a cable or pipeline, was observed extending through the communications facility and terminating at the adjacent Kun-ming Maintenance and Storage Area

25X1

25X1

TOP SECRET RUFF

25X1

25X1

25X1
25X1
25X1

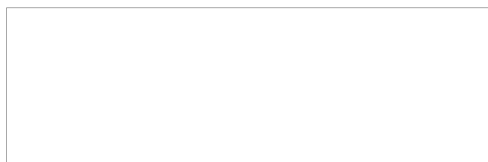
INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming Radcom Station Northwest			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	25-04-30N 102-38-20E	None	
MAP REFERENCE			
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
		NA	

INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming Military Region Headquarters			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	25-01-50N 102-42-10E	None	
MAP REFERENCE			
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
		NA	

25X1

25X1

8. The station is 3 nm northwest of Kun-ming and consists of a control area and possible support area. The control area consists of a fence-secured probable covered adit on the side of a steep hill. A possible support area is at the base of the hill beneath the adit and contains three multistory administration buildings, six possible quarters, and at least 19 support buildings. The antenna field (Table 3), containing four horizontal dipole antennas, is east of the control area and the possible support area. A branch from the trench seen at Kun-ming Radcom Transmitter Station Northwest was observed extending into this facility area in October 1972.



10. This facility is the probable headquarters of the Kun-ming Military Region. A single horizontal dipole antenna, observed at the communications facility of the headquarters in January 1971, has been removed.

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming Communications Facility			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	25-01-06N 102-44-29E	None	
MAP REFERENCE			
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
		NA	

25X1

25X1

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming Radcom Transmitter Station Southwest			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	25-02-10N 102-40-40E	None	
MAP REFERENCE			
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
		NA	

11. Only one vertical mast remains of the seven vertical masts last seen at the facility in February 1971. The facility is probably not operational.

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming/Wu-chia-pa Possible Electronics Facility			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	25-00-40N 102-44-10E	None	
MAP REFERENCE			
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
		NA	

25X1

25X1

25X1

9. No antennas could be identified at this facility. One horizontal dipole antenna, last seen in June 1967, has probably been removed.

12. Four horizontal dipole antennas were observed at this facility in May 1971 and were later removed. The facility's support area contains a possible control building, 20 quarters, and six support buildings. A large square pad for a probable electronics tower is just north of the support area and was first observed in March 1973. Two probable cable trenches enter the area from the south.

25X1

25X1

TOP SECRET RUFF

25X1

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming Radcom Station Wu-chia-pa Airfield Southeast			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	24-59-00N 102-45-00E	None	
MAP REFERENCE			

25X1

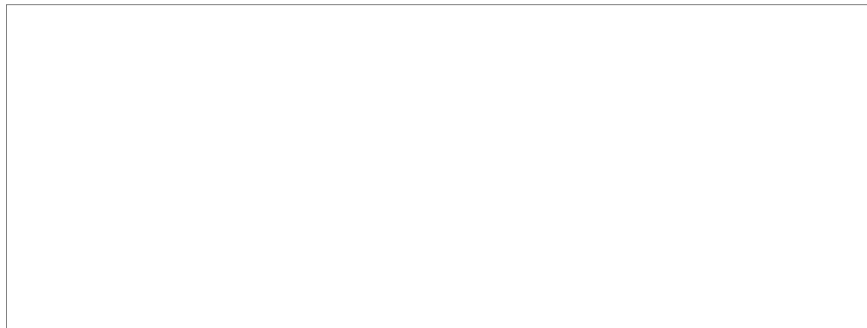
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

13. The station is 1.5 nm southeast of Kun-ming/Wu-chai-pa Airfield and consists of a control area and an antenna field. The wall-secured control area contains a control building, one quarters, a messhall, and four support buildings. The antenna field is north of the facility and contains two rhombic, five quadrant, and four horizontal dipole antennas (Table 4).

25X1



INSTALLATION OR ACTIVITY NAME			COUNTRY
Kun-ming Radcom Receiver Station Southeast			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	24-56-28N 102-46-37E	None	
MAP REFERENCE			

25X1

DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

14. The facility is 6 nm southeast of Kun-ming and consists of a large operations/support area and an antenna field. The operations/support area is wall secured and contains six administration buildings, seven barracks, one auditorium, and 16 storage/support buildings. The antenna field (Table 5) surrounds the operations/support area and contains four fishbone, one rhombic, one horizontal dipole, one THICK EIGHT HF/DF, and six quadrant antennas.

25X1



TOP SECRET RUFF

25X1

25X1

TOP SECRET RUFF

25X1

25X1

INSTALLATION OR ACTIVITY NAME	COUNTRY
Kun-ming Radcom Transmitter Station Northeast	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES
NA	25-06-01N 102-45-03E

25X1

MAP REFERENCE

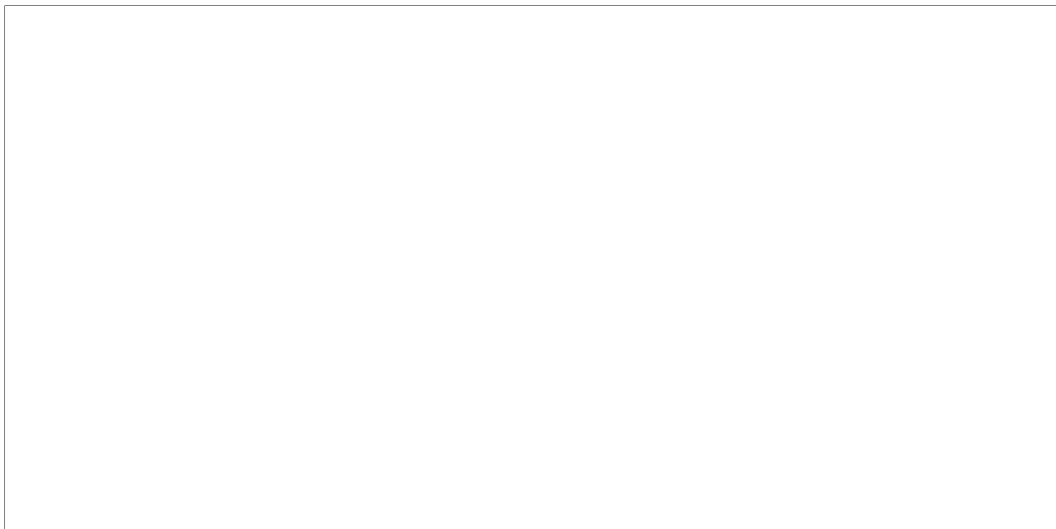
DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

NEGATION DATE (if required)	
NA	

25X1

15. The station (Figure 4 and Table 6) is 3.5 nm northeast of Kun-ming and consists of an operations/support area and an antenna field. The operations/support area contains a wall-secured control building and an unsecured support building. The antenna field surrounds the operations/support area and contains three rhombic, 16 horizontal dipole, and two quadrant antennas. In March 1973 a probable cable trench (Figure 1) was observed extending into the control area. This is probably for a segment of an underground cable that is under construction between Kun-ming and the Kuei-yang area of Kweichow Province.

25X1



TOP SECRET RUFF

25X1

25X1

Page Denied

Next 1 Page(s) In Document Denied

25X1

25X1

INSTALLATION OR ACTIVITY NAME

COUNTRY

Kun-ming/Wu-chia-pa Airfield

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

NA

24-59-27N 102-44-32E

25X1

MAP REFERENCE

DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

25X1

16. The communications facility (Figure 5 and Table 7) is just south of the terminal area of Kun-ming/Wu-chia-pa Airfield and contains two quadrant and two horizontal dipole antennas. No control area could be identified; it is possibly in the civilian terminal building.

25X1



25X1

25X1

TOP SECRET RIJFF

25X1

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Cheng-kung Transmitter Station North			CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.
NA	24-55-21N 102-47-46E	None

25X1

MAP REFERENCE

DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

NEGATION DATE (if required)	
NA	

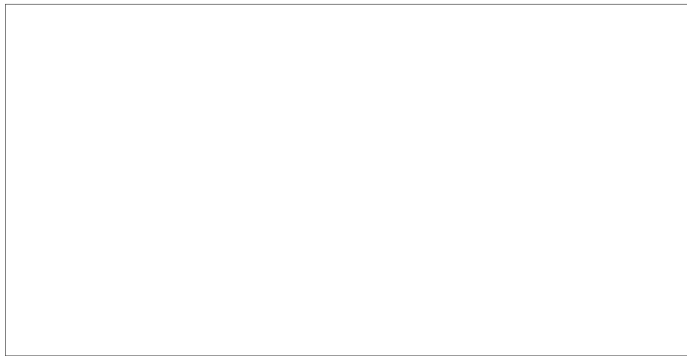
25X1

17. This facility (Figure 6 and Table 8) is 7 nm southeast of Kun-ming and consists of an operations/support area and two antenna fields. The operations/support area is wall secured and contains three probable control buildings, one multistory administration building, 16 barracks, six quarters, one messhall, 11 storage support buildings, and six vehicle storage buildings. One antenna field is just east of the operations/support area and contains four horizontal dipole antennas; a fifth dipole antenna was removed between December 1972 and March 1974. The second antenna field is within the western part of the operations/support area and contains six horizontal dipole antennas. These antennas were added between March and December 1972. Two FIX EIGHT HF/DF antennas are south of the operations/support area. A portion of the facility is used as a surface-to-surface missile (SSM) headquarters [redacted]; it is 6 nm west of Kun-ming/Cheng-kung SSM Launch Site/MRBM [redacted]

25X1

25X1

25X1



TOP SECRET RIJFF

25X1

25X1

Page Denied

Next 1 Page(s) In Document Denied

TOP SECRET RUFF

25X1

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Cheng-kung HF Communications Facility			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	24-51-00N 102-47-25E	None	
MAP REFERENCE			

25X1

DIA, USATC, Series 200, Sheet 0496-17, scale 1:200,000

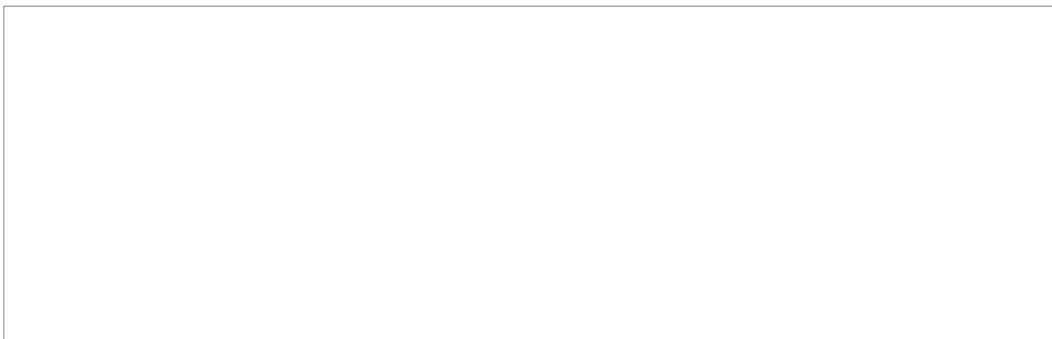
LATEST IMAGERY USED	NEGATION DATE (if required)
	NA

25X1

18. This facility (Figure 7 and Table 9) is 3,000 feet northwest of Cheng-kung Airfield [redacted] and 12 nm southeast of Kun-ming. The facility consists of an operations/support area and an antenna field. The operations/support area contains two wall-secured control buildings, one quarters building, one messhall, two possible quarters, ten possible barracks, and one possible administration building. The antenna field is north of the control buildings and contains three rhombic, two quadrant, and three horizontal dipole antennas. One of the rhombic antennas was under construction in April 1974.

25X1

25X1



25X1

TOP SECRET RUFF

25X1

25X1

25X1
ZUA
25X1

INSTALLATION OR ACTIVITY NAME		COUNTRY
Cheng-chiang Radcom Station		CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.
NA	24-41-40N 102-53-00E	None

25X1

MAP REFERENCE

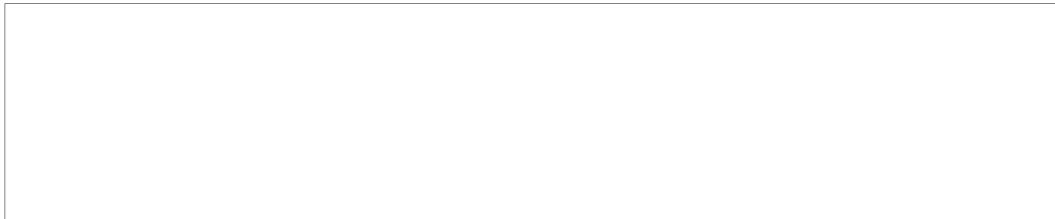
DIA. USATC, Series 200, Sheet 0496-22, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

25X1

19. The facility (Figure 8 and Table 10) is 20 nm southeast of Kun-ming and was first identified in September 1973 [redacted]. The facility consists of an operations/support area and an antenna field. The operations/support area includes three wall-secured administration/control buildings, 11 multistory quarters, 14 barracks, two messhalls, and 24 support buildings. The antenna field is southeast of the operations/support area and contains three rhombic antennas and one fishbone antenna. The antennas were under construction in January 1974 and complete by April 1974.

25X1



25X1

25X1

25X1

Page Denied

Next 1 Page(s) In Document Denied

TOP SECRET RUFF

25X1

25X1

INSTALLATION OR ACTIVITY NAME			COUNTRY
Cheng-chiang HF Communications Facility 2			CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	
NA	24-38-30N 102-56-05E	None	
MAP REFERENCE			

25X1

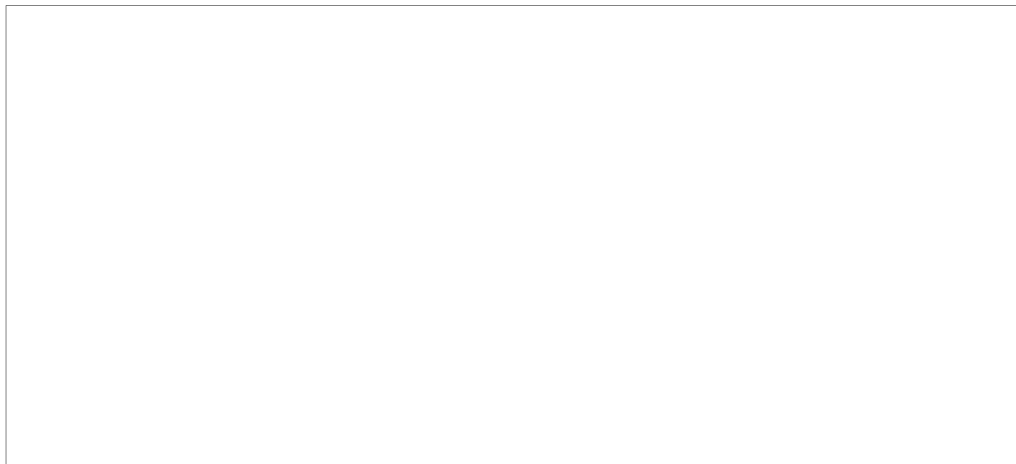
25X1

DIA. USATC, Series 200, Sheet 0496-22, scale 1:200,000

	NEGATION DATE (If required)
	NA

20. The installation (Figure 9 and Table 11) is 27 nm southeast of Kun-ming and consists of an operations/support area and an antenna field. The operations/support area contains two wall-secured control buildings, a covered adit or bunker, 15 barracks, one messhall, and 26 storage/support buildings. The antenna field, west of the operations/support area, now contains two rhombic and 11 horizontal dipole antennas. One rhombic antenna had been removed, one horizontal dipole antenna realigned, and two new masts added to the antenna field between January and April 1974. The two new masts may be part of a rhombic antenna under construction. The earlier configuration of this facility was described in the previous NPIC report.¹

25X1



TOP SECRET RUFF

25X1

25X1

TOP SECRET RIJFF

INSTALLATION OR ACTIVITY NAME			COUNTRY
Cheng-chiang Military Headquarters Area			CH

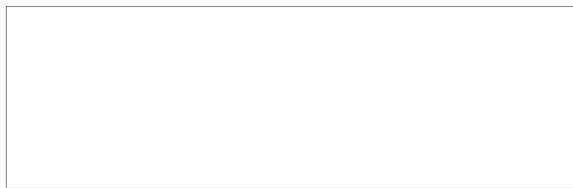
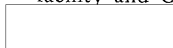
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.
NA	24-39-30N 102-56-40E	None

MAP REFERENCE

DIA. USATC, Series 200, Sheet 0496-22, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

21. The facility (Table 12) contains one quadrant antenna and one probable quadrant antenna under construction. No operations/support area can be identified, but it is probably in the southern part of the headquarters area which contains five large administration buildings, eight multistory quarters, two messhalls, and nine support buildings. A probable underground cable connecting this facility and Cheng-chiang HF Communications Facility 2 (Figure 9) was observed in December 1973



INSTALLATION OR ACTIVITY NAME			COUNTRY
An-ning HF Communications Facility			CH

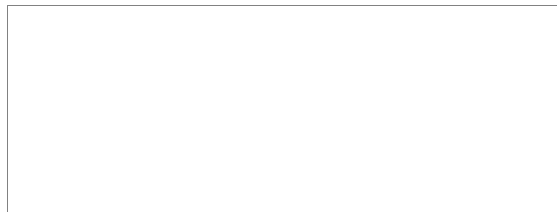
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.
NA	24-55-40N 102-20-10E	None

MAP REFERENCE

DIA. USATC, Series 200, Sheet 0496-17, scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

22. The facility (Table 13) is 21 nm southwest of Kun-ming and contains an operations/support area and an antenna field. The operations/support area consists of a fence-secured adit entrance, five barracks, one messhall, and one building under construction. The antenna field is southeast of the operations/support area and contains five probable horizontal dipole antennas with reflectors.



TOP SECRET RIJFF

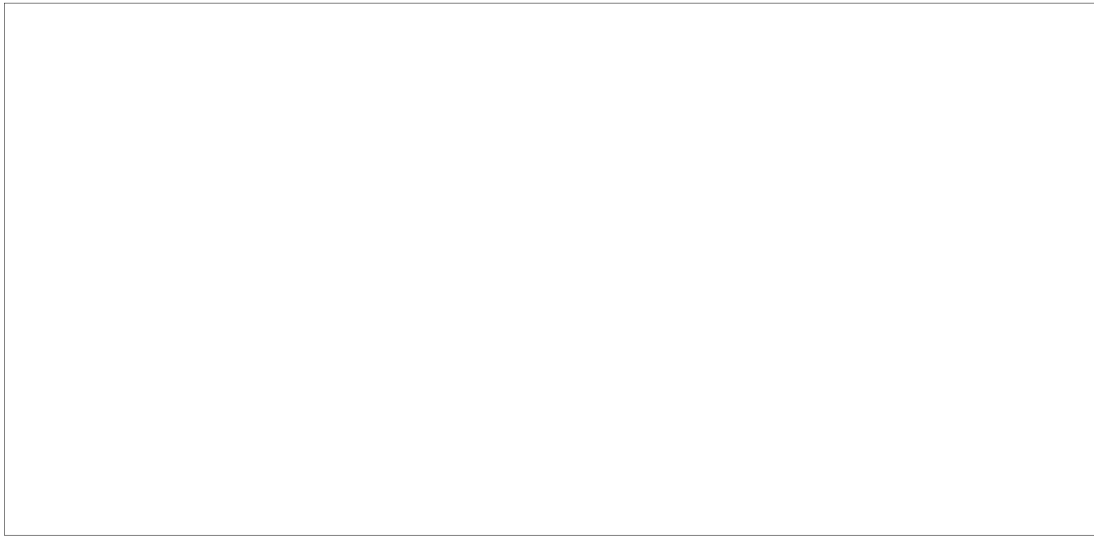
TOP SECRET RUFF

25X1

25X1

REFERENCES

25X1



MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheets 0496-17 and -22, scale 1:200,000

DOCUMENT

1. NPIC: [redacted] RCA-03/0007/74, *Kun-ming Communications Complex*, Feb 74 (TOP SECRET RUFF [redacted])

25X1

25X1

REQUIREMENT

Project 120801NF

25X1



TOP SECRET RUFF

25X1

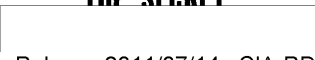
25X1

TOP SECRET



25X1

TOP SECRET



25X1