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APPENDIX G	<u>1</u>
MACSOG CUMMUNICATIONS	2
PART I. INTRODUCTION	<u>3</u>
A. (PS) BACKGROUND	4
This Appendix contains a record of MACSOG's communications	<u>5</u>
net development including an accounting of the procedures of	<u>6</u>
operations with the clandestine agent communications	<u>7</u>
network.	<u>8</u>
3. (T8) <u>SCOPE</u>	<u>9</u>
Since detailed documentary matter relating to the early	10
development of MACSOG communications no longer exists in command	<u>11</u>
files, COMUSMACV Command Histories from 1964 to 1968 are used	12
as the main sources of reference in compiling this record. Further	, <u>13</u>
this Appendix is arranged in yearly sequence basis in order that	<u>14</u>
the steps involved in establishing a communications network for	<u>15</u>
A MACSOG type military operation can be more clearly followed.	<u>16</u>
	<u>17</u>
	<u>18</u>
	<u>19</u>
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Appendix G

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	PART II. 1964 HISTORY	1	
¥	A. (IS) OPERATIO::S	2	
	1. (TS) Prior to the establishment of MACSOG,	3	(b)(1)
		4	(b)[3)
		<u>5</u>	
		<u>6</u>	
		7	
		<u>8</u>	
		<u>9</u>	
		10	
	2. (JPS) Following the establishment of MACSOG, in the J-5 section		
	of COMUSMACV, in January 1964, one of the unresolved problems	<u>12</u>	
	related to the amount of communications support CAS would provide	<u>13</u>	
	MACSOG.	14	(b)(1)
		<u>15</u>	(b)(3)
		<u>16</u>	
		<u>17</u>	
		18	
		<u>19</u>	
		20	
		21	
		22	
		23	
		24	
		25	
	b. The military provided:	<u>26</u>	
	(1) Operational/administrative circuits for MACSOG's use	<u>27</u>	
	from COMUSMACV headquarters to Naval Advisory Group (NAD),	<u>28</u>	
	Danang, Airborne Training Center, Camp Long Thanh, American	<u>29</u>	
	Embassy, Saigon, and Tan Son Nhut Air Base, Saigon.	<u>30</u>	
	* (TS) MACSOG Communications/Electronic Instructions, dated 21 Nov 68.	<u>31</u>	
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<u> </u>	nce of MAROPS equipment	and radio operators	
proficiency.	are of inviors eduipment	-	
	aphic support.	2	
3. (TS)	aphic support.	<u> </u>	
3. (10)		<u>4</u>	
		<u>5</u>	
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	MOOD OPPIDI LITY POT TOO	8	
	responsibility for the	- <u>-</u>	
MAROPS and flight o		<u>10</u>	
+		<u>11</u>	
t 1d	responsibility for com	<u>12</u>	
	responsibility for com		
Support.		14	
B. (IS) <u>CIPCUITRY</u>		<u>15</u>	
		ad been established for <u>16</u>	
	on to MAD, Danang and P	Pirst Flight Detachment, 17	
Nha Trang.		<u>18</u>	
	single sideband (SSB) n	_	
	anh, First Flight Detac		
and NAD, Danang.	<u> </u>	21	
		22	
		23	
		were established between 24	
	amp Long Thanh, and Tar		
C. (DS) <u>SIGNAL PLANS</u>		<u>26</u>	
	lons, in late 1964, wer		
Which were originated :	in the Air Studies Bran		
		29	
		30	
* (TS) MACSOG Communica SOG Communications By	ations Officer ltr of l rief	31 July 1964, Subj:	

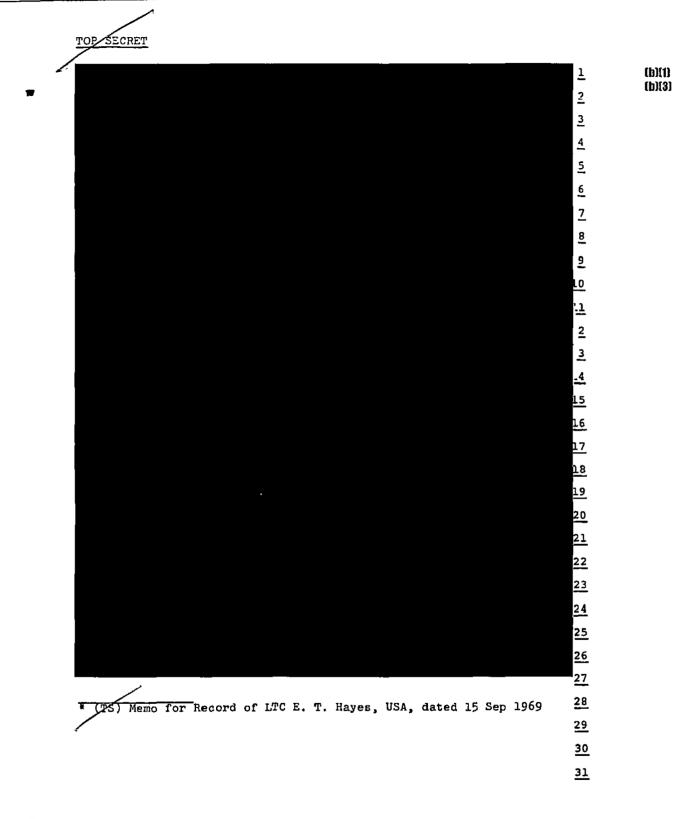
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	<u>8</u>	
D. (TS) CRYPTOGRAPHY	<u>9</u>	
Literal one-time pads for agent team encryption were furnis	hed <u>10</u>	
through CAS, Saigon. No other FOOTBOY crypto requirements were	<u>11</u>	
necessary during this period.*	12	
E. (75) <u>PERSONNEL</u>	13	
The military section of SOG communications was originally	<u>14</u>	
conceived as a staff planning organization with a Joint Table	<u>15</u>	
of Distribution (JTD) of two officers and two enlisted men	16	
established. Temporary duty personnel were required to operate	<u>17</u>	
MACSOG radio circuitry. These temporary duty personnel were pro-	<u>18</u>	
vided by MACV J-1 until permanent personnel were assigned to MACS	OG#* <u>19</u>	
	20	
	<u>21</u>	
	22	
	<u>23</u>	
	<u>24</u>	
	25	
	26	
	27	
- Alexandra	28	
* (S) MACSOG Communications Briefing Notes, undated ** (TS) MACSOG Communications Officer 1tr of 1 July 1964, Subj:	29	
SOU Communications Brief	<u>30</u>	
	<u>31</u>	
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TOP SECRET PART III. 1965 HISTORY <u>1</u> A. TET OPERATIONS . 2 (b)(1) (b)(3) _ TOP SECRET G-5 Appendix G TOP SECRET G-5 Appendix G



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Appendix G

CIRCUITRY (78) Three additional TTY circuits were established within the MACSOG communications network in 1965. These circuits provided a multipoint with direct communications with Clark Air Base; / Command and Control off the NAD circuit; (C&C) Detachment, Danang/ and Forward Operating Base (FOB), Phu Bai. 2.(J&)An SSB net, utilizing DWM-2A radios, was established between SØG Headquarters, Camp Long Thanh, First Flight Detachment, Nha Trang, and NAD, Danang in early 1965. Later in the year, this net was extended to include the newly activated C&C Detachment at Danang. History indicates that this C&C Detach-10 The COMUSMACV 1965 Command 11 ment was also provided with high frequency transmitters and receivers in order to establish a base radio station for SHINING BRASS 12 13 operations. The FOBs at Kham Duc and Dak To were also added to the 14 SSB net with activation of KMW-2A equipment at these locations. ground-air 3. (T8) To support SHINING BRASS teams, AN/PRC-25 (FM)/ radios 15 (AM) were procured as well as AN/PRC-64s for field-base use. The PRC-64 16 17 was issued to replace the bulkier and heavier AN/GRC-109 radio. 18 SHINING BRASS communications between the C&C detachment, the 19 FOBs and launch sites consisted of CW and voice radio utilizing 20 one time pads or operations codes. Communications from the teams to 21 launch sites consisted of CW initially. As PRC-25s were introduced. 22 an FM voice capability between the team and base evolved by 23 utilizing forward air control (FAC) aircraft as relay points. high points in 24 Ground relay stations, established at sensitive areas inaccessible 25 to the enemy due to terrain features, were also activated to

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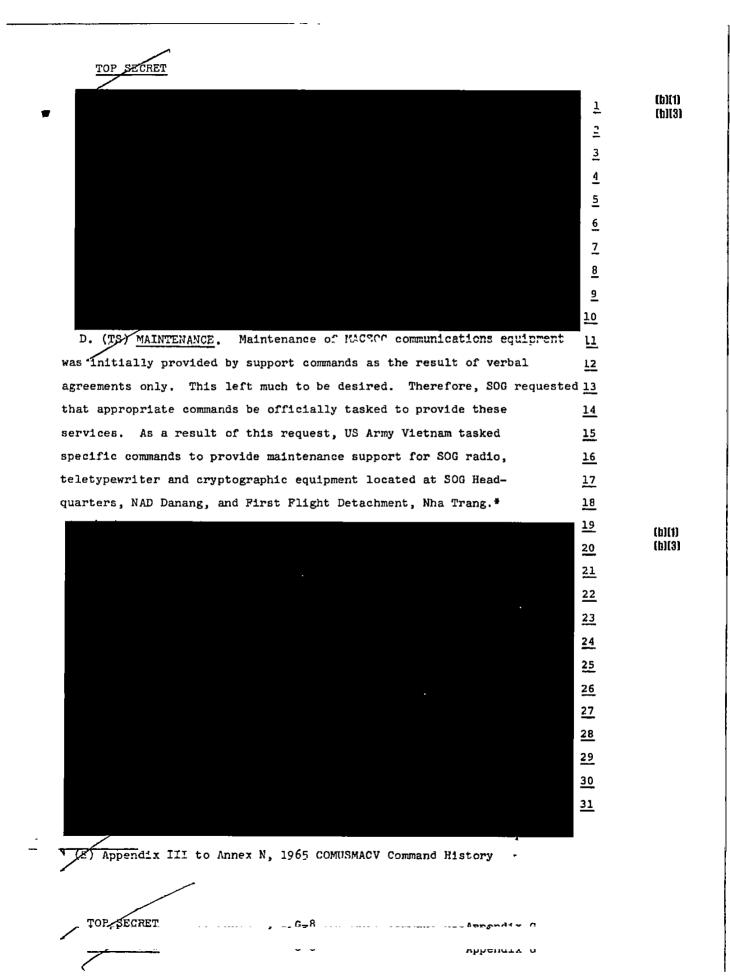
27 4. (PS) Despite its heavy weight, agent teams in NVN continued to use 28 the GRC-109 in 1965 as it was the only dependable equipment <u>29</u> available to meet their long-term requirements. (PS) FACILITIES 30 С.

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assist the teams in communicating with their base.

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		<u>13</u>	
		14	
	F. (PS) CRYPTOGRAPHY	<u>15</u>	
	1.(PS) The responsibility for providing agent teams with crypto-	<u>16</u>	
	graphic material (one time pads) was transferred to SOG	<u>17</u>	(b)(1) (b)(2)
	Communications in December. After making arrangements with the	<u>18</u>	(b)(3)
	National Security Agency, SOG was provided two series of Diana	<u>19</u>	
	pads for issue to OPLAN 34A teams, SHINING BRASS personnel, and	<u>20</u>	
	the STD for operations and training. In addition, one time pads, ca	alled	
	Calypso, were furnished SOG for roadwatch reporting. In November,	22	
	Agent Team VERSE was the first team to infiltrate with this	<u>23</u>	
	roadwatch cryptographic material. These pads allowed roadwatch	24	
	teams to report contacts by four-digit groups based on numbered	25	
	flash cards.	<u>26</u>	
	2.(TS) The responsibility for decryption of agent team messages	<u>27</u>	
	was assigned to the STD in December. This change reduced the time	<u>28</u>	
	of decryption and the subsequent translation of messages received	<u>29</u>	
	from the field. SOG Communications continued to retain the	<u>30</u>	
	responsibility of encrypting messages addressed to the agent teams.	** 31	
_	* (5) MACSOG Communications Briefing Notes, undated. (5) Appendix III to Annex N, COMUSMACV Commard History dated 2 June 1966.		
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	2 June 1966.		

G. (TS) PERSONNEL		
The MACSOG JTD dated 15	October 1965 reflect	ed the following
personnel as being authorized	for the SOG Communic:	ations Division.
<u>Title</u>	Grade	<u>Service</u>
Communications Officer Operations/Plans Officer	0-5 0-4	Navy Air Force
Material/Security Officer Comm Center Supervisor	0-3 E-8	Army Air Force
Chief Radio Operator Field Radio Repairman Supv	E-5(2 ea) E-6	Army Army
Field Radio Repairman Supv Crypto Repairman	E-5 E-6	Army Army
Teletype Repairman	E-5 E-5	Army Army
Crypto Specialist Comm Center Specialist Comm Center Specialist	E-4 E-3(2 ea)	Army Army
Comm Center Specialist Comm Center Specialist Admin Spec	E-4(3 ea) E-4	Air Force Air Force
Intermediate Speed Rad Oper	E-4(8 ea)	Army
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PART IV. 1966 HISTORY

1.(TS)During 1966, the MACSOG Cormunications Center transmitted and received approximately 2,500 messages per month. Personnel continued to encrypt messages by the one-time-pad method and provided technical assistance to senior officers while they were monitoring operational missions.

2.(18) Restoration priorities for the TTY circuits serving MACSOG <u>8</u> were originally on the priority 2 level. To preclude the SOG <u>9</u> circuit from being preempted, an agreement was worked out with COMUS- <u>0</u> MACV Communications whereby a 24-hour, 1d restoration priority <u>1</u> was assigned the SOG TTY circuity during the period operational <u>2</u> missions were in progress. <u>13</u>

3.(76) A secure TTY pony circuity was activated between the SOG 14 Headquarters and the MACV J-6 Communications Center. This circuit 15 was used to pass: 16

a. "Immediate" and "flash" procedence outgoing traffic originated by MACSOG.

b. "Immediate" and "flash" precedence traffic addressed 19 to MACSOG. 20

c. Highly perishable intelligence information to COMUSMACV 21
 that had been received on the Project BUGS TTY circuit. 22
 B. (TS) FACILITIES AND CIRCUITRY 23

1.(FS) The Khe Sanh, Kontum and Phu Bai launch bases entered the 24 SOG SSB net in 1966. 25

2.(AS) Upon the activation of the Joint Personnel Recovery Center 26 (JPRC), a point-to-point secure voice facility between the JPRC 27 and the Joint Search and Rescue Center at Tan Son Nhut Air 28 Base was installed. 29

3.(FS) MACSOG Communications Division initiated a project which would add a TTY alternate circuit from Danang Control to C&C <u>31</u> Detachment, Danang. The purpose of this new circuit was to give Danang Control a multi-point TTY capability and provide a higher

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 Densary Control a multi-noint TTV canability and provide a bishon

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*	TTY reliability in the Danang area. Additionally, a RATT	<u>1</u>
	net was in the process of being established between C&C	2
	Detachment, Danang and associated FOBs and launch sites. At	<u>3</u>
	the close of the year, the project was not completed due to	<u>4</u>
	equipment procurement difficulties.	<u>5</u>
	4. (78) Naval Shore Electronics Activity Pacific was tasked to	<u>6</u>
	provide and install a TTY circuit between NAD, Danang and Cu	<u>7</u>
	Lao Cham Island. The purpose of this circuit was to provide a	8
	timely relay to SOG of perishable intelligence and psychological	<u>9</u>
	operations information. The installation was not completed in	<u>10</u>
	1966.	<u>11</u>
	C. (TE) EQUIEMENT	<u>12</u>
	1. (T8) When the Safe Area Activation Teams (SAAT) were organized	<u>13</u>
	and began training in 1966, it was determined their communications	14
	equipment would consist of PRC-71 and URC-10 radios.	<u>15</u>
	. These radios were diverted to SOG	<u>16</u>
	from in-country sources and given the teams.	<u>17</u>
	2. (75) During November and December 1966, 15 PRC-74 radios,	<u>18</u>
	capable of CW and SSB voice transmission were received and	<u>19</u>
	distributed to subordinate units within MACSOG.	20
	3. (TS) The AN/PRT-4 and AN/PRR-9 squad radios were evaluated for	<u>21</u>
	MACOSC's use, and it was determined they would be highly desirable	22
	for field operations. Plans were made to divert a certain percentage	<u>23</u>
	of these radios to SOG when they arrived in country.	<u>24</u>
	4. (T8) A request was submitted for the VSC-2, jeep mounted radio	25
	teletype (RATT) to fill the requirement for a secure RATT circuit	26
İ	between C&C Detachment, Danang and the FOBs.	<u>27</u>
	D. (25) <u>SIGNAL PLANS</u>	<u>28</u>
	1. (T8) GADAZ tactical signal plans with operating instructions	<u>29</u>
١	were air dropped to agent teams in NVN, and at the close of the	<u>30</u>
:	year all but one team, VERSE, had GADAZ plans in their possession.	<u>31</u>

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main plans to be used by SAAT personnel equipped with the 4 -71 ratio. 5 (AS) CRYPTOGRAPHY 6 1. (FS) A brevity code was devised to furnish agent teams a secure 2 1 hod of passing brief messages by voice to observer aircraft. 9 imilar, but briefer, code was prepared for training and 9 rational use by SAAT personnel. 10 2. (TS) The National Security Agency developed a specially / 11 e to support SHINING ERASS operations in December 1966. The 12 e, KAC-199, appeared to be both versatile and secure by 13 munication personnel, and plans were made to put it into use 14 early 1967. 15 (LAS) IT was determined that the newly organized SAAT required a 17 19 inum CW communications capability in order to accomplish their 18 sion. In response to this need, the STD instituted an 11 19 k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 4. (TS)As a means of keeping agent team radio operators proficient 22 24 25 26 25 26 27 26		<u>1</u>	(b)(1) (b)[3)
main plans to be used by SAAT personnel equipped with the 4 -71 ratio. 5 (FS) CRYPTOGRAPHY 6 1. (FS) A brevity code was devised to furnish agent teams a secure 1 1 hod of passing brief messages by voice to observer aircraft. 8 imilar, but briefer, code was prepared for training and 9 rational use by SAAT personnel. 10 2. (TS) The National Security Agency developed a specially 11 e to support SHINING BRASS operations in December 1966. The 12 e, KAC-199, appeared to be both versatile and secure by 13 munication personnel, and plans were made to put it into use 14 early 1967. 15 (FS) TRAINING 16 1. (FS) It was determined that the newly organized SAAT required a 17 imum CW communications capability in order to accomplish their 18 sion. In response to this need, the STD instituted an 11 19 k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 2. (TS)As a means of keeping agent team radio operators proficient 22 2. (TS)As a means of keeping as instituted in 1966. 23 2. (2	
-71 radio. 5 (NS) <u>CRNPTOGRAPHY</u> 6 1. (TS) A brevity code was devised to furnish agent teams a secure 2 hod of passing brief messages by voice to observer aircraft. 9 imilar, but briefer, code was prepared for training and 9 rational use by SAAT personnel. 10 requested 11 e to support SHINING BHASS operations in December 1966. The 12 e, KAC-199, appeared to be both versatile and secure by 13 munication personnel, and plans were made to put it into use 14 early 1967. 15 (MS) It was determined that the newly organized SAAT required a 17 11 imum CW communications capability in order to accomplish their 18 ston. In response to this need, the STD instituted an 11 19 k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 c. (TS) As a means of keeping agent team radio operators proficient 22 CW communications while waiting to be infiltrated, a refresher 23 ining program for these personnel was instituted in 1966. 24 21 22 23 22	3. (TS) The MACSOG Communications Division prepared a set of three		
(AN) <u>CRNPTOGRAPHY</u> 6 1. (PS) A brevity code was devised to furnish agent teams a secure 2 hold of passing brief messages by voice to observer aircraft. 9 imilar, but briefer, code was prepared for training and 9 rational use by SAAT personnel. 10 2. (TS) The National Security Agency developed a specially / 11 e to support SHINING ERASS operations in December 1966. The 12 e, KAC-199, appeared to be both versatile and secure by 13 munication personnel, and plans were made to put it into use 14 early 1967. 15 L(PS) It was determined that the newly organized SAAT required a 17 imum CW communications capability in order to accomplish their 18 ston. In response to this need, the STD instituted an 11 19 k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 2. (TS) As a means of keeping agent team radio operators proficient 22 23 24 25 24 25 26 25 26 27 28 29 30 31 31	signál plans to be used by SAAT personnel equipped with the		
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Pequested 11 e to support SHINING BRASS operations in December 1966. The 12 e, KAC-199, appeared to be both versatile and secure by 13 munication personnel, and plans were made to put it into use 14 early 1967. 15 (MS) TRAINING 16 1.(MS) It was determined that the newly organized SAAT required a 17 imum CW communications capability in order to accomplish their 18 sion. In response to this need, the STD instituted an 11 19 1. (TS)As a means of keeping agent team radio operators proficient 22 2. (TS)As a means of keeping agent team radio operators proficient 23 2. (TS)As a means of keeping agent team radio operators proficient 23 2. (TS)As a means of keeping agent team radio operators proficient 23 2. (DIM) [DIM3] 26 27 2. (DIM) [DIM3] 26 27 2. (DIM) [DIM3] 26 27 2. (DIM) [DIM3] 31 31	A similar, but briefer, code was prepared for training and	<u>9</u>	
2. (FS) The National Security Agency developed a specially /	operational use by SAAT personnel.	10	
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imum CW communications capability in order to accomplish their 18 sion. In response to this need, the STD instituted an 11 19 k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 c. (TS)As a means of keeping agent team radio operators proficient 22 CW communications while waiting to be infiltrated, a refresher 23 ining program for these personnel was instituted in 1966. 24 25 26 27 28 29 30 31	F. (28) TRAINING	<u>16</u>	
sion. In response to this need, the STD instituted an 11 19 k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 c. (JTS)As a means of keeping agent team radio operators proficient 22 CW communications while waiting to be infiltrated, a refresher 23 ining program for these personnel was instituted in 1966. 24 25 26 27 28 29 30 31	1.(FS) It was determined that the newly organized SAAT required a	<u>17</u>	
k CW operator's course at Camp Long Thanh, and the first class 20 in the final week of training at the close of the year. 21 2. (JTS)As a means of keeping agent team radio operators proficient 22 CW communications while waiting to be infiltrated, a refresher 23 ining program for these personnel was instituted in 1966. 24 25 (b)(1) 10)(3) 26 29 30 31	minimum CW communications capability in order to accomplish their	<u>18</u>	
in the final week of training at the close of the year. 21 22 23 24 24 25 25 26 27 28 29 30 31 21 21 22 22 23 24 25 25 26 29 30 31	mission. In response to this need, the STD instituted an ll	<u>19</u>	
2. (JTS)As a means of keeping agent team radio operators proficient 22 CW communications while waiting to be infiltrated, a refresher 23 Ining program for these personnel was instituted in 1966. 25 25 26 27 28 29 30 31	week CW operator's course at Camp Long Thanh, and the first class	<u>20</u>	
CW communications while waiting to be infiltrated, a refresher 23 ining program for these personnel was instituted in 1966. 24 25 (b)(1) (b)(3) 26 27 28 29 30 31 31	was in the final week of training at the close of the year.	<u>21</u>	
CW communications while waiting to be infiltrated, a refresher 23 ining program for these personnel was instituted in 1966. 24 25 (b)(1) 26 27 28 29 30 31	2. (TS) a means of keeping agent team radio operators proficient	22	
Aning program for these personnel was instituted in 1966. 24 25 26 27 28 29 30 31	in CW communications while waiting to be infiltrated, a refresher		
25 (b)(1) 26 27 28 29 30 31	·	24	
26 27 28 29 30 31		<u>25</u>	
27 28 29 30 31		<u>26</u>	(b)(3)
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<u>30</u> <u>31</u>			
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	(S) Appendix VIII to Annex M, 1966 COMUSMACV Command History.	29 30	
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(b)(1) (b)(3)

PART V. 1967 HISTORY	1
A. (IS: OPERATIONS	5
1. (TS) The communication activities of MACSOG expanded signifi-	3
cantly in 1967 with the commencement of DANIEL BOONE operations. In	
respect to communications support, these operations set a pattern	
similar to that of PRAIRIE FIRE. The PRAIRIE FIRE operations contin	
essentially as before with the exception of a RATT net which was	<u>-</u> 8
established to link C&C Detachment, Danang with all its FOBs and	9
launch sites.	~ 10
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 B. (28) FACILITIES AND CIRCUITRY 1.(TS)Nakhon Phanom, Dalat Training Camp, STRATA FOB, and the C- 	
🖌 1 (TS)Nakhon Phanom Dalat "raining Camp, STHATA FUB, and the C-	
Detachment at Ho Ngoc Tau were added to the SSB net in 1967.	18
	<u>18</u> 19
Detachment at Ho Ngoc Tau were added to the SSB net in 1967.	<u>18</u> <u>19</u> <u>20</u>
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(PS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information.	18 19 20 21
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(PS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for	18 19 20 21 21
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(PS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information.	18 19 20 21 21 21 21 21 21 21
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(PS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information. 3.(TS) In October 1967, a secure, dedicated TTY circuit was acti	18 19 20 21 21 21 21 21 21 21 21 21 21
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Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(TS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information. 3.(TS) In October 1967, a secure, dedicated TTY circuit was activity vated between SOG Communications Center and the DUCK HOOK facility at Nakhon Phanom. A similar type circuit was also established	$\frac{16}{20}$ $\frac{20}{21}$ $\frac{21}{21}$ $\frac{21}{21}$ $\frac{21}{21}$ $\frac{21}{21}$ $\frac{21}{21}$ $\frac{21}{21}$ $\frac{21}{21}$
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(TS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information. 3.(TS) In October 1967, a secure, dedicated TTY circuit was active vated between SOG Communications Center and the DUCK HOOK facility at Nakhon Phanom. A similar type circuit was also established between the Center and Ban Me Thuot to handle DANIEL BOONE communi- cations. C. (TS) EQUIPMENT ship	18 20 21 21 22 22 21 21 21 21 21 21 21 21 21
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(TS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information. 3.(TS) In October 1967, a secure, dedicated TTY circuit was activity vated between SOG Communications Center and the DUCK HOOK facility at Nakhon Phanom. A similar type circuit was also established between the Center and Ban Me Thuot to handle DANIEL BOONE communi- cations.	16 20 21 21 21 21 21 21 21 21 21 21 21 21 21
Detachment at Ho Ngoc Tau were added to the SSB net in 1967. 2.(TS) A RATT circuit was established between NAD, Danang and Cu Lao Cham Island. This circuit provided MACSOG a relay for perishable intelligence and psychological operations information. 3.(TS) In October 1967, a secure, dedicated TTY circuit was active vated between SOG Communications Center and the DUCK HOOK facility at Nakhon Phanom. A similar type circuit was also established between the Center and Ban Me Thuot to handle DANIEL BOONE communi- cations. C. (TS) EQUIPMENT ship	18 20 21 21 22 22 21 21 21 21 21 21 21 21 21

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TOP SECRET Danang The C&C Detachment at / received 131 of the new, miniature 1 2 FM sound radios, AN /PPT-4 and AM /PPA-9, for the PRAIRIE FIRE 3 teams. These radios were to be used for air to ground as well 4 as intra-team communications. 5 (18) SIGNAL PLANS D 6 1. (D8) In 1967, all agent teams in NVN were queried as to whether <u>7</u> or not they held the GADAZ signal plans at their locations. As 8 a result of this query, it was discovered that many of the teams 9 had cached the plans in unsecure areas thus making activation of 10 GADAZ an impossibility. It was, therefore, determined that the <u>11</u> normally used signal plans for these agent teams would continue to <u>12</u> be employed and improved upon when any deficiencies became apparent. <u>13</u> 2.(PS) When the SAAT program was discontinued and the STRATA 14 concept took its place, it was judged that the AN/PRC-74 radio was 15 most suitable for the STRATA teams. A signal plan was developed 16 in support of this equipment, and it was used between 17 the teams and the new STRATA base station established at Danang. 18 E. (PS) CRYPTOGRAPHY (NSA) 19 1./TS)Acting on MACSOG's request, the National Security Agency / 20 developed a special code to be employed in cross-border operations. 21 This code, the KAC-199, appeared to be both versatile and secure 22 when it went into effect in February 1967. After the code had 23 been put into use, it was discovered that it was extremely difficult 24 to use since the system was not categorized. A revised version, 25 categorized under subject headings, was introduced, and reports <u>26</u> from the field indicated that it was an improvement over the original 27 code. 28 2. (T8)From the experience of developing locally produced codes and <u>29</u> suggesting revisions to the NSA developed KAC-199, a new code was 30 developed by SOG Communications to support STRATA. It was con-<u>31</u> sidered, by MACSOG, that the code would be simple to use; enable a Vietnamese to pass messages verbally to English speaking persons; offer a method of making messages brief; and give a measure of security ...

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3.(78) SOG Communications conceived another code, KAC-234. It	<u>1</u>
was intended that this code, which was issued to the field	2
for implementation in February 1968, would be used for rotating,	<u>3</u>
on a daily basis, the call signs and personnel identifiers used	4
on the SOG SSB net.*	5
F. (TRS) <u>COMMUNICATIONS SECURITY</u>	<u>6</u>
1.(PS)Acting upon a request of Chief, MACSOG, the 101st Radio	7
Research Company monitored and analyzed the SOO radio net in July	<u>8</u>
1967 to determine what, if any, information of intelligence \cdot	<u>9</u>
value could possibly be obtained by the enemy through intercept	10
and analysis of traffic on the net. Following the analysis,	<u>11</u>
it was pointed out by the communications security activity that	<u>12</u>
security and discipline on the radio net was extremely loose,	13
and that the circuit provided an excellent source of information	<u>14</u>
for possible exploitation by the enemy.	<u>15</u> 16
2.(TS)As a result of this security check, several actions were	<u>16</u>
taken by MACSOG to improve communications security. These actions	<u>17</u> '8
included the rotations of call signs on a daily basis, implementati	on ⁻ 2
of an authentication system, and the stressing of the proper use	- 20
of operational codes.**	21
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* (TS) Appendix VIII to Annex G, 1967 COMUSMACV Command History	27
**- (CY MACSOG Directive Number 105-6 of 9 Sep 1967.	28
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PART VI. 1968 HISTORY

PART VI. 1968 HISTORY	<u>1</u>
A. (TE) OPERATIONS	<u>2</u>
1.(D8) MACSOG communications activities continued to expand in	3
1968. A significant factor in this expansion was the establish-	4
ment of STRATA FOBs at Danang and the NAD FOB at Phan Thiet.	<u>5</u>
2.(TS) To accommodate the increasing cross-border operations, the	<u>6</u>
MACSOG SSB net was divided, with Net A being dedicated to	<u>7</u>
PRAIRIE FIRE and Net B to DANIEL BOONE operations. Communications	<u>8</u>
support for these programs were similar, and a RATT net was establis	hed
linking Command and Control South (CCS) at Ban Me Thuot with	<u>10</u>
FOB-6 at Ho Ngoc Tau.	<u>11</u>
3.(PS) As a result of the establishment of the STRATA Monkey	<u>12</u>
Mountain FOB (MMFOB) Communications Center at Danang in July 1968,	<u>13</u>
MACSOG began to receive more timely reports on STRATA missions.	<u>14</u>
B.(TS) FACILITIES AND CIRCUITRY	<u>15</u>
1.(TS) Upon relocation of MACSOG to MACV 1 Compound in January	<u>16</u>
1958, non-secure voice hot lines were installed between SOG	<u>17</u>
Headquarters, 1st Flight, CCN, Ho Ngoc Tao, and Nakhon Phanom.	<u>18</u>
2.(MS) In February, a separate SSB net between CCS and MACSOG	<u>19</u>
was established which eliminated an overload problem on the	<u>20</u>

Command and Control North (CCN) net.

3.(PS) In July, MMFOB at Danang was added to the TTY circuit as a $\frac{22}{100}$ multi-point extension. This circuit then tied MACSOG Headquarters $\frac{23}{100}$ with CCN, NAD, and MMFOB, Danang. $\frac{24}{100}$

4. (T8) In September, a secure, dedicated TTV circuit was activated $\frac{25}{25}$ between the MACSOG Communications Center and CCN which provided an $\frac{26}{27}$ alternate traffic route to the Danang area.

5.(T8) In December, when psychological operations on Cu Lao Char Island were discontinued, the RATT circuit between that activity and NAD, Danang was deactivated. <u>Major</u> <u>30</u>

6.(FS)All / MACSOG field units received Terminal Telegraph(TH-5) 31 equipment during this period. This equipment made it possible to use a voice hotline to pass teletype traffic which could serve as a backup circuit.

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TOP SECRET (TS) The CCN RATT net was extended to include Nakhon Phanor in Décember 1,768. 8. (TS) The RATT circuit between CCS and its FOB was established early in 1968. When CCS moved to Ban Me Thuot in July, voice hotlines were established with FOB-6 at Ho Nhoc Tau and MACSOG Headquarters. 9. (PS) A request was approved by COMUSMACV for TTY and voice hotline circuits between MACSOG and Command and Control Central (CCC) at Kontum. It was determined that the circuit activation date would be 15 January 1969. 10. (T8) Action was initiated to validate CCN, CCC, CCS, NAD MMFOB, Air Operations Group, and the Joint Translation Center as Secure Voice Systems, KY-3 (AUTOSEVCOM) subscribers. C. (25) EQUIPMENT MACSOG received 80 KY-38 FM secure voice units in 1968. This equipment, which operated in conjunction with the PRC-77, were distributed to field units. They were to be used by PRAIRIE FIRE and DANIEL BOONE teams to communicate between FOBs, launch sites and radio/relay points. D. (TS) SIGNAL PLANS In order to occupy the enemy in looking for an agent team that did not exist in NVN, a diversionary tactic was initiated in October 1968, whereby a non-existent agent team in NVN was supplied with all the equipment a regular team would have. A realistic signal $\frac{24}{24}$ plan, including crystals, crypto pads and contact schedules for this diversionary unit was developed that was similar to the existing signal plans. This signal packet was included in the resupply bundle for the notional teams.

E. (TS) CRYPTOGRAPHY

30 1. (MS) A new MACSOG personnel code, KAC 234, was issued to 31 the field for use on radio nets, voice hotlines and conventional telephones. The code was initially developed as a personnel code 32

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but was expanded to include locations of MACSOG activities,	,
aircraft, and the identification of routine reports.	1
2. (TS) In late December, a new STRATA code, ADAC-278, arrived	2
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in country. It was planned that this code, which was a combined	4
brevity code and a one time code printed and cross-indexed in	5
Vietnamese and English, would replace the locally produced code	<u>6</u>
that was then in use by the STRATA teams.*	7
F. (TSY WIRE TAPPING	8
1. (TX) As a means of enhancing the intelligence collection	<u>9</u>
effort, wire tapping operations were introduced into MACSOG	<u>10</u>
operations in 1968. In an operation plan, Chief MACSOG provided	<u>11</u>
the essential information for the integration of wire tap	<u>12</u>
procedures with PRAIRIE FIRE, DANIEL BOONE, STRATA, and Maritime	<u>13</u>
action team operational missions.	14
2. (PS) The concept of operations in the plan called for the	15
cross-border teams to be equipped with the MS-1 electronics devices	<u>16</u>
and to conduct wire taps of active enemy communications (wire)	<u>17</u>
when feasible within designated operational areas. When semi-	<u>18</u>
permanent communications installations had been located, it was	<u>19</u>
directed that the more sophisticated device, XR4-100, would be	<u>20</u>
introduced into the operational area by selected teams to	21
continue wire tap monitoring for extended periods.**	22
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* (5) Appendix F to Annex F, COMUSMACV 1968 Command History (FS) MACSOG OPLAN 37A-68 (TOTEM FOLE) (U) dtd 23 Jan 68	28
(U) ata 23 Jan 68	<u>29</u>
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A. (T8) GENERAL	<u>1</u>
Late in 1968, MACSOG published up-to-date communications	2
and electronics instructions which codified the administrative	<u>-</u>
and operational concepts of MACSOG communications Since this	4
publication provides a concise description of MACSOG communica-	5
tion activities in the beginning of 1969, the more significant	<u>6</u>
sections of these instructions are set forth below.	<u>7</u>
B. (75) Communications Concept	8
1. (75) "The basic concept of SOG Communications is to	9
provide a secure, reliable chain of command from Chief, SOG to each of his subordinate commanders. The basic concept is met	<u>10</u>
in the following manner.	11
a. "A secure, didicated, simplex, 60 wpm teletype circuit from SOG Headquarters via a tropo path to First Flight	12
Detachment at Nha Trang.	13
b. "A secure, dedicated, simplex, 60 wpm, teletype circuit from SOG Headquarters via a tropo path to C&C North at	14
Danang. (Marble Mountain)	15
c. "A secure, dedicated, simplex, 60 wpm, multipoint teletype circuit from SOG Headquarters via a tropo path to NAD and MMFOB, Danang.	<u>16</u>
d. "A secure, dedicated, duplex, 60 wpm teletype circuit	<u>17</u>
to MACV Headquarters via cable through Saigon Tech Control and Gia Dinh Tech Control.	18
e. "A secure, dedicated, simplex, 60 wpm teletype circuit	<u>19</u>
via tropo path and TRC-24 to C&C South at Ban Me Thuot.	<u>20</u>
f. "A secure, dedicated, simplex, 60 wpm teletype circuit via tropo to FOB and Launch Site at Nakhon Phanom, Thailand.	<u>21</u>
g. "A secure, dedicated, simplex, 60 wpm teletype circuit	22
via tropo to CCC at Kontum.	<u>23</u>
h. "An unsecure, single sideband voice network is used as a backup for the nets noted above. In addition, all PRAIRIE	<u>24</u>
FIRE(C) FOBs and Launch Sites and the training camp at Long Thanh are members of this voice network. This is protected	<u>25</u>
by use of KAC-234, KAC-199 and KAC-140.	<u>26</u>
i. "Unsecure telephone voice hotlines to CCN, CCC, NAD/ MMFOB, CCS, lst Flight and Nakhon Phanom. All of the above	<u>27</u>
except CCS have the capability of passing teletype in the event a regular circuit is out by using a voice frequency	<u>28</u>
telegraph terminal TH-5.	<u>29</u>
	<u>30</u>
	<u>31</u>

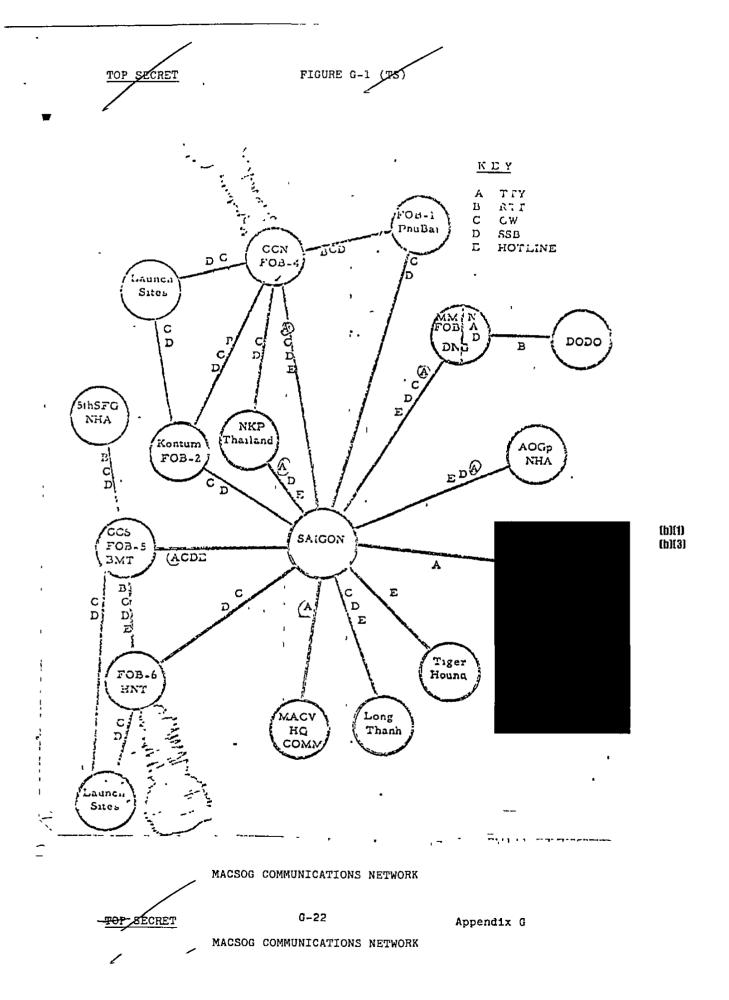
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SECRET TOP 2. (TS/"Additional communications concerts essential to the 1 successful conduct of SOG operational missions. Ξ (b)(1) (b)(3) 3 4 5 6 <u>7</u> 8 9 10 11 c. "C&C North, Danang RTT Net. A secure, joint, mobile 12 radio teletype net between C&C North, FOBs and Launch Sites. This provides maximum security to sensitive operations. 13 d. "Intelligence reports from Phoenix/Dodo. A secure 14 radio teletype circuit between Phoenix/Dodo and the Naval Advisory Detachment, Danang was activated on 15 January 1967 in order that intelligence reports could be ralayed to 15 Chief, SOG in a timely manner." * 16 3. (7%) Figure G-1 is a simplified diagram of the MACSOG 17 communications network. 18 19 (TS) PERSONNEL C. 1. (DS) "Personnel for SOG communications are assigned in 20 accordance with the current Joint Table of Distribution (JTD) 21 for the Studies and Observations Group, U.S. Military Assistance Command, Vietnam. 22 2. (PS) "The JTD is reviewed semi-annually at which time recommended changes are made by branch chiefs for SOG Head-23 quarters and by detachment heads for their detachments. 24 3. (T8) "Personnel assigned to CCN, CCC and CCS are controlled by the 5th SFG, Nha Trang and, therefore, do not appear on the SOG JTD. Personnel assigned to Air Ops Group are controlled by 7th Air Force." * 25 26 27 28 <u>29</u> 30 31 TS) MACSOG Communications-Electronic Instructions, dated 21 November 1968

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	D. (75) C	odes. Below liste	d are cryptog	raphic codes tha	at	<u>1</u>
T	vere used	by various MACSO	Ģ act≤vities :	in 1969.		2
						3
	CCN	CCS	MMFOB	NKP	NAD	4
	USKAC-199		USKAC-234*	USKAC-234*	USKAC-23*	5
	USKAC-234 KAA-SERIE		KAA-SERIES XY-OTP	KAA-SERIES KAC-140	KAA-SERIES	6
	VL-OTP XY-OTP	KAC-140 VL-OTP	ADAC-278	(Draws fm CCN))	<u>7</u>
	WW-OTP	XY-OTP WW-OTP				8
	СТ Ш			HQ_		2
	CLT					10
	USKAC-234 KAA-SERIE	S KAA-SERIES	USKAC-199* KAA-SERIES	(Radio)		<u>11</u>
	KAC-140	VL-OTP	VL-OTP (Rad:	(All Sections) 10/0P-34)		<u>12</u>
			XY-OTP (Rad: WW-OTP (Rad:	io/OP-34)		
			KAC-140 (Rad AKAC-125 (OI	P-32)		<u>13</u>
			AKAC-132 (0)	P-31)		<u>14</u>
			ersonnel Code	- 50 registers)		<u>15</u> <u>16</u>
		KAC-140 (Opera	tions code - u	e - 14 registers used throughout		<u>17</u>
		AKAC-125 (USAF		de [Pacific Area	a] -	<u>18</u>
		AKAC-132 (USN Ö		e [Pacific Area]] -	19
		VL-OTP (One Ť	ister availab. ime Pad - 2 r	egister)		20
		XY-OTP (One T WW-OTP (One T	ime Pad - 3 re ime Pad - 7 re	egister) egister)		21 21
	3. (TS) "a	bove items do not	- inclusio mm v		. .	
	or mumerical	and alpha-numeric erical pads are o	al one time n	ads. The numer	ical	<u>22</u> 23
		HONE SYSTEMS	M-nand, Dit n	ave not been im	premented."	<u>24</u>
	1. (T2) "T	WO common user tr	runks are inst	alled between B	UFFALO	25
	adjacent to L	(Thanh) and BEAR(ong Thanh), BEAR	CAT (9th Inf D CAT is conner	iv Switch, loca	ted	26
	Binh. To rea	ch BUFFALO. dial	on Nhut via <u>a</u> TIGER operato	radio relay at r and ask for B	Long FARCAT	27
	ASK BEARCAT f	or BUFFALO or BUF k for BUFFALO 2 t	FALO 1 to rea	ch the US Swite	h at Long	28
	Thanh. The c the VN Trunk	ircuit number of	the US Trunk	1s KRT-7, and	0	<u>29</u>
	2. (IS) "A	hot line, circui	t number than	•		30
	routed through	P-34 office and t h the MACV II pag opo circuit to Vu radio relay, and	e microwave to	itch. This circ o the STRATCOM 1	cuit is	<u>31</u>
-	V TINILC	ates code peculia	r to 800			
	TOP PERS	G Communications-	Electronic In	structions,dated	1 21 Nov 106	8.
	TOP SPEKET		G-23	Appendix	G	
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t<u>op</u> secret 1 (TS) SECURE VOICE SYSTEMS 2 (IS) "SOG Headquarters has the following Secure Voice 1. System, KY-3 (AUTOSEVOCOM). 3 a. "DUDV KUM-6. Located in OP-32 (OCC) with an extension 4 in OP-35. 5 b. "DUDV SJV-6. Located in OP-80 (JPRC) with an extension in room 300 (Chief, SOG). <u>6</u> 2. (PS) "In addition to the KY-3, Det 14, 30th Weather Squad on has a secure voice telephone (KY-1) to the 7th Air Force COC, Tan Son Nhut, to circuit SJV-6."* 2 8 9 G. (TS) FREQUENCIES 10 1. (TS) The area frequency coordinator 1s MACV (J-6). However, due to the many Vietnamese and US civilian and military users, <u>11</u> frequency coordination is almost an impossibility. Where frequencies are not specifically assigned for SOG use, they are 12 selected and used on a non-interference basis.]] <u>13</u> 14 ·=., 15 16 ۱ 17 18 3.(TS) "The following frequencies have been permanently 19 assigned to SOG by the MAC J-6 frequency coordinator. 20 21 22 <u>23</u> 24 25 26 27 28 ł <u>29</u> 30 <u>31</u> G-24 TOP SECRET Appendix G

(b)(1) (b)(3)

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a. " <u>HF Frequencies</u>			<u>1</u>
Frequency	Emmission	Location	4
3 156.5(3155)*	3A3J	123 CTZ	<u>3</u>
3493(3494.5)*	1.1F1	1 CTZ	4
3536.5(3535)* 3541.5(3540)*	3A3J 1.1F1/3A3J 3A9J	All CTZ l CTZ RVN	<u>-</u> 5
3118	6A9B	RVN	<u>6</u>
4005*	1.1F <u>1</u>	1 CTZ	
4255	Al	1 CTZ	
4295*	A1	l CTZ	<u>7</u>
4518.5(4517)*	3A3J	l CTZ	<u>8</u>
4900	A1	l CTZ	
4928.5(4927) 5407.5(5407)	3A9J 3A3J 1.1F1	NKP, Thai 1 CTZ 1 CTZ	<u>9</u>
5500 5521 *	CW	Air/Ground	<u>10</u>
5715(5721.5)*	3A3J	123 CTZ	<u>11</u>
6797.5(6796)	3A9J	NKP, Thai	
6920(6926.5) 7051.5(7050)*	3A3J 3A3J 3A3J	123 CTZ NKP, Thai	<u>12</u>
7323.5(7321)*	3A3J	RVN	<u>13</u>
7425	6A9B	RVN	
7620.5(7619)	3A3J	RVN	14
7678.5(7677)*	3A9J	NKP, Thai	
7943	1.1F1	RVN	<u>15</u>
8218,5(8217)	3A3J	1 CTZ	
9043*	1.1F1	DNG	<u>16</u>
9145(9151.5)*	3A3J	123 CTZ	
10021*	CW	Air/Ground	<u>17</u>
10100*	6A9B	2 CTZ	
10121.5(10120)	3A3J	l CTZ	<u>18</u>
10142.5(10141)	3A3J	3 & 4 CTZ	
10891,5(10890)	3A3J	l CTZ	<u>19</u>
12700#	Cw	l CTZ	
12885.5(12884)*	3A3J	1 CTZ	20
14651.5(14650)	3A3J	1 CTZ	
14961.5(14960)*	3A3J	3 & 4 CTZ	<u>21</u>
15711.5(15710)*	3A3J	1 CTZ	
16556.5(16555)	3A3J	1 CTZ	<u>22</u>
b. " <u>VHF Frequencies</u>			<u>23</u>
61.850	30F3	BEARCAT	24
63.950	30F3	BEARCAT	
119.8	6A3	SGN/A/G/A	<u>25</u>
138.3	3F2	AIR	
228.3	80F3	DNG	26
247.9	80F3	DNG	
259.3	80F3	DNG	<u>27</u>
259.4	80F3	DNG	
c. "UHF Frequencies			<u>28</u>
336.9	6A3	Long Thanh	<u>29</u>
360.6 366.6	6A3	Long Thanh 1 & 2 CTZ 1 & 2 CTZ."**	30
300.0	6A3	T & C U14.""	<u>31</u>

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** (TES) MACSOG Communications_Electronics Instructions. dated TOP SECRET Appendix G

TOP SECRET H. (T3) CODEWORDS 1.4TS) "The codeword TIGEA refers to operations conducted under QPLAN-34A and is considered SECRET. 3 (b)[1] 4 4 5 6 7 7 7 7 8 9 7 9 10 11 11 12 13 14 15 16 17 16 17 18 19 10 11 11 11 11 11 11
1.415) "The codeword TIGEA refers to operations conducted under2OPLAN-34A and is considered SECRET.3The codeword TIGEA is used in OPLAN-34A messages originated by MACV or CINCPAC to JCS. The codeword DRAGON is used in OPLAN-34A messages originated by DOD, JCS to MACV (SOG), and CINCPAC.TIGER indicates limited distribution (LIMDIS) of messages which concern OPLAN-34A operations and is used both in common user and sole user circuits. (Local "codewords" to indicated limited distribution of OPLAN-34A messages alternatively routed to NAVAD V DET Danang and 1st Flt Det, Nha Trang, 1.e., TOMCAT and PUSSYCAT respectively, have been cancelled as being unnecessary.) Alternately routed messages referring to OPLAN-34A messages.911[hil1][hil1][hil1][hil1][hil1]
OPLAN-34A and is considered SECRET. 3 (b)(1) The codeword TIGER is used in OPLAN-34A messages originated by 4 4 MACV or CINCPAC to JCS. The codeword DRAGON is used in OPLAN-34A 5 messages originated by DOD, JCS to MACV (SOG), and CINCPAC. 6 TIGER indicates limited distribution (LIMDIS) of messages which 6 concern OPLAN-34A operations and is used both in common user and 7 sole user circuits. (Local "codewords" to indicated limited 7 MAVAD V DET Danang and lst Flt Det, Nha Trang, i.e., TOMCAT and 8 PUSSYCAT respectively, have been cancelled as being unnecessary.) 9 Alternately routed messages referring to OPLAN-34A messages. 10 11 (b)(1) (b)(3) 11
The codeword TIGEA is used in OPLAN-34A messages originated by MACV or CINCPAC to JCS. The codeword DRAGON is used in OPLAN-34A4messages originated by DOD, JCS to MACV (SOG), and CINCPAC. TIGER indicates limited distribution (LIMDIS) of messages which concern OPLAN-34A operations and is used both in common user and sole user circuits. (Local "codewords" to indicated limited distribution of OPLAN-34A messages alternatively routed to NAVAD V DET Danang and lst Flt Det, Nha Trang, i.e., TOMCAT and PUSSYCAT respectively, have been cancelled as being unnecessary.) Alternately routed messages referring to OPLAN-34A messages.911[b][1]11[b][1]
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MACV or CINCPAC to JCS. The codeword DRAGON is used in OPLAN-34A messages originated by DOD, JCS to MACV (SOG), and CINCPAC. TIGER indicates limited distribution (LIMDIS) of messages which concern OPLAN-34A operations and is used both in common user and sole user circuits. (Local "codewords" to indicated limited distribution of OPLAN-34A messages alternatively routed to NAVAD V DET Danang and 1st Flt Det, Nha Trang, i.e., TOMCAT and PUSSYCAT respectively, have been cancelled as being unnecessary.) Alternately routed messages referring to OPLAN-34A messages. designated LIMDIS TIGER like all other OPLAN-34A messages. 10 11 (b)[1]
messages originated by DOD, JCS to MACV (SOG), and CINCPAC. TIGER indicates limited distribution (LIMDIS) of messages which concern OPLAN-34A operations and is used both in common user and sole user circuits. (Local "codewords" to indicated limited distribution of OPLAN-34A messages alternatively routed to NAVAD V DET Danang and 1st Flt Det, Nha Trang, i.e., TOMCAT and PUSSYCAT respectively, have been cancelled as being unnecessary.) Alternately routed messages referring to OPLAN-34A messages. designated LIMDIS TIGER like all other OPLAN-34A messages. 10 11 (b)(1) (b)(3)
concern OPLAN-34A operations and is used both in common user and sole user circuits. (Local "codewords" to indicated limited7distribution of OPLAN-34A messages alternatively routed to NAVAD V DET Danang and lst Flt Det, Nha Trang, i.e., TOMCAT and PUSSYCAT respectively, have been cancelled as being unnecessary.) Alternately routed messages referring to OPLAN-34A messages.9Alternately INDIS TIGER like all other OPLAN-34A messages.1011[b][1]
distribution of OPLAN-34A messages alternatively routed to NAVAD V DET Danang and 1st Flt Det, Nha Trang, i.e., TOMCAT and PUSSYCAT respectively, have been cancelled as being unnecessary.) Alternately routed messages referring to OPLAN-34A operations are designated LIMDIS TIGER like all other OPLAN-34A messages. 10 11 [b][1]
PUSSYCAT respectively, have been cancelled as being unnecessary.) 9 Alternately routed messages referring to OPLAN-34A operations are designated LIMDIS TIGER like all other OPLAN-34A messages. 10 11 [b][1] (b][1] [b][1]
designated LIMDIS TIGER like all other OPLAN-34A messages. 10 11 (b)[1] (b)[3]
12
13
14
15
I. (PS) <u>CALL SIGNS</u> <u>16</u> (b)(1)
18
19
2. (HS) "SOG C-123 aircraft, for administrative communications, <u>20</u>
use a two-letter call sign beginning with "W", i.e., WHISKEY
22 (b)(1)
(b)(3)
24
4. (ATS) Tab I contains an alphabetical list of codewords, 25
hickhames and call signs that were in use during 1968-1969.
J. (PS) LOGISTICS responsi- 27
1. (PS) "Logistic support for SOG communications is the/ bility of the SOG Logistics Division which requisitions material 28
through the Counterinsurgency Support Office (CISO), Okinawa. Crystals ordered through CISO take six to 11 months to procure. 29
<u>30</u> (b)(3)
2. (AS) "Requests for communication equipment from the Communi- 31
cations Officer, Strategic Technical Directorate (STD) are sub- mitted via the SOG Communications Officer for approval or dis- approval. This includes requisitions for communication train- ing equipment at Long Thanh Training Camp and for STD radio stations.*
* TSY MACSOG Communications-Electronic Instructions, dated 21 November 1968.
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TOP SECRET

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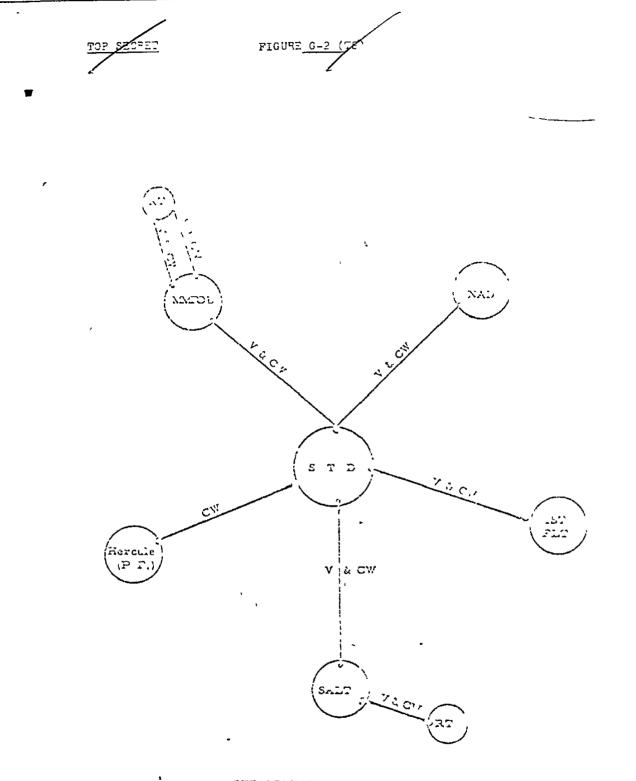
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K. (TST SPECIAL STUDIES	<u>1</u>	
1. (FS) "SOC "orrunications Branch monitors the communication training of agent team, boat and aircraft radio operators by	<u>1</u>	
means of training schedules submitted by STD and Airborne	3	(b)(1)
Operations, discrepancy reports and the second and visits to SOG elements. Direct respons ibility for communication training is as follows:	<u>4</u>	(b)(3)
a. "Agent Teams, Vietnamese instructors at Long	5	
Thanh Training Camp.	<u>6</u>	
b. " <u>Boat Radio Operators</u> . Initially by instructors at Long Thanh Training Camp. However, since these personnel	<u>7</u>	
are seldom replaced, refresher training is conducted between MAROPS missions by NAVADVDET Danang communications personnel	8	
This training is based on the MAROPS signal plan, good	<u>9</u>	
communications practices and operator discrepancies as reported in contact reports discrepancies .	<u>10</u>	(b)(1)
c, "Aircraft Radio .	<u>11</u>	(b)[3]
Nha Trang conducts communication refresher training of aircraft radio operators fraining is based on the AIROPS	12	
signal plan, good communication practices and operator discrepancies as reported in contact reports	<u>13</u>	
	14	(b][1]
	<u>15</u>	(b)[3)
	<u>16</u>	
	17	
	18	
r	19	
	20	
	<u>21</u>	
3. (TS) "The Communication Officer, STD supervises and monitors		
the training of agent team radio operators at Long Thanh and submits plans of instruction (POI), training schedules, rosters	<u>22</u>	
of students, and reports of results of training to Chief,	<u>23</u>	
OP-34. 4. (AS) "Short-range radio operator training is conducted	24	
between the trainees at Long Thanh.	25	(b)(1) (b)(3)
	26	
	<u>27</u>	
	28	
L. (AS) COUNTERPART COMMUNICATIONS	29	
[1. (PS) In order to obtain data regarding existing Vietnamese	<u>30</u>	
counterpart communication networks, equipment being employed,	<u>31</u>	
and adequacy of equipment available to satisfy communication		
* (PS) MACSCG Communications-Electronic Instructions, dated 21 November 1968.		
TOP SECRET G-27 Appendix G		
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requirements, the MACSOG Communications Material Officer, in	<u>1</u>
July 1969, visited the communications sites supporting the	5
STD and blaison Service, ARVN.	<u>3</u>
2. (TS) Upon completion of this visit, it was determined that	4
a. Two separate radio networks are maintained. The	5
first is a logistics/administrative net which links STD	<u>6</u>
with its distant terminals (see Figure <u>G-2</u>). The second	<u> </u>
is a command/control/operations net which links the Liaison	<u>8</u>
Service with the Command and Control Sites (see Figure $G-3$)	. <u>9</u>
b. The STD met predominantly employs the AN/FRC-93 at	<u>10</u>
its Saigon Headquarters, while the AN/PRC-74 equipment is	<u>11</u>
used at distant terminals. The Laision Service uses the	12
PRC-74 and the GRC-106 as basic radios.	<u>13</u>
b. These two nets appear to satisfy counterpart require-	<u>14</u>
ments through the use of voice and CW, off-line encrypted	<u>L5</u>
with KAC codes and one-time pads where appropriate.*	<u>16</u>
M. (AS) COMMUNICATIONS STUDY	<u>17</u>
1. (PS) The MACSOG communications officer conducted a compre-	<u>18</u>
hensive study of the three SOG Command and Control Detachments'	<u>19</u>
communications facilities in early 1969. As a result of this	<u>20</u>
study, he determined that:	<u>21</u>
a. "The Detachments' communications/electronics	22
inventory contains a complex mix of equipment which is difficult to support with spare parts and which requires maintenance personnel with uncommonly varied training	23
and experience.	24
b. "Much of the teletype equipment is worn and obsolescent and requires an inordinate amount of	<u>25</u>
maintenance.	26
abalagest and unstable. The dill have support a course	27
radio teletype signal from the C&C to the launch site.	28
Due to the tack of hostfive management control	<u>29</u>
transferring factical facto equipment differring to outgoing	<u>30</u>
teams, thereby precluding preventive maintenance procedures which would insure radios are operating at optimum efficiency when deployed.	<u>31</u>

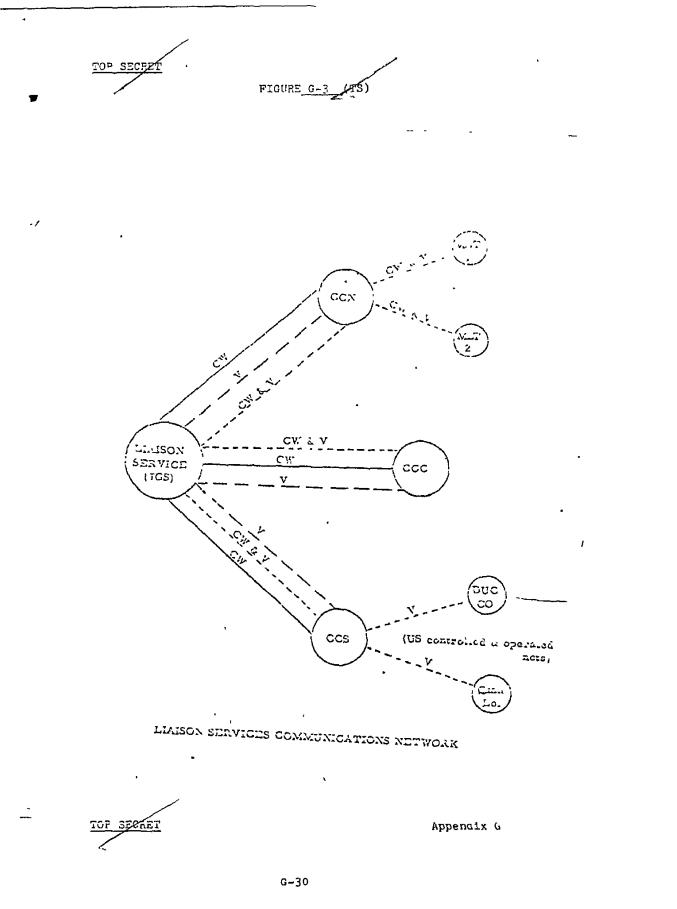
 (DS) MACSOG Communications Material Officer letter of 21 July 1969; Subject: "Trip Report, STD Communications Sites."

TOP SECRET



STD COMMUNICATIONS NETWORK

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TOP SECRET

e. "Although sufficient maintenance support agreements 1 are in effect with adjacent racio and teletype rapair units, these units frequently do not have sufficient space 2 parts or technical knowledge to effect rabair due to obsolescence of C&C equipment. 3 f. "Much equipment in C&C inventories is not being used or is in excess of requirements. 4 5 g. "Test equipment on hand is inadequate to meet maintepance requirements."* 6 (PS) After listing the above problem areas, the communications 7 2. 8 Officer, in his report, discussed equipment and maintenance 9 difficulties in detail as follows 10 a. Tactical Radio Equipment 11 (1) "The amount of tactical radio equipment on hand. including antennas and handsets, appears to be adequate 12 if properly controlled. (2) "Procurement of 150 AN/PRC-90s has been approved by the Department of the Army. The PRC-90 is a 2-channel 13 14 plus emergency beacon lightweight set with ear phone that should replace URC-10, RT-10, HT-1 and PRT-4/PRR-9 for intra-team comm and the AN/PRC-41 as back up air/ground 15 radio. 16 (3) "AN/PRC-77 are being issued in lieu of AN/ PRC-25. 17 18 (4) AN/PRC-64 (lightweight CW and voice set designed for U/W) is receiving little use now but should be 19 retained in inventory for intermediate range (beyond range of PRC-77 but not requiring PRC-74) operations. 20 (5) "AN/PRC-74s are used tactically for long-range 21 operations (particularly STRATA) and also as backup for SOG SSB voice net and as voice/CW backup for launch site 22 to C&C RATT. PRC-74 should be retained in inventory. 23 Command and Control Communications Equipment ь. 24 (1) "At this time there are no reliable, secure, In rapid communications between launch sites and C&Cs. 25 one instance, CCC to Dat To, a strong secure voice link can be established as soon as a small generator can be procured to furnish power. At other sites, greater 26 distances involved require secure, radio teletype (RATT) communications. Equipment on hand is old, unreliable 27 and continually drifts off frequency. Stable (drift 28 free) equipment is required for secure RATT circuits. <u>29</u> (2) "Most teletype equipment in C&C communication centers is worn and obsolescent. Replacement with 30 AN/FGC-25X, which is standard equipment for most Army units in Vietnam, will greatly reduce maintenance and <u>31</u> spare parts support problems

* (8) Director, MACSOG-60 letter of 29 May 1969; Subject. "Communications Requirements for Command and Control Petachments."

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Appendix G

TAN Director. MACSOG-60 Letter of 29 May 1909; Subject. _____

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(3)"Standardization of equipment as reflected in (Figure 6-4) for which additional inventories should be produced, will necessitate the expenditure of apprenmately \$426,800 as follows.

				<u> </u>	
<u></u>	antity	Nomenclature	FSN	Total Cost	
	24 6 12 4	AN/FGC-25X AN/GRC-106 MD-522/GRC AN/GRC-1422	5815-619-5644 5810-082-3491 5815/999-5277 5820-788-4515 ^E /	\$ 85,000 43,800 60,000 238,000	
` <u>a</u> ∕	Modified	by substituting	; AN/FGC-25X as te	letype equipment	•
с.	Maintenar	nge			
,	(1)	Standardization	of equipment as a	reflected in	
			ecnnicians, who way ar fewer equipment		
	capabilit	ies in July whe	acquire additions n each will receiv letype repairman.		
	considera	The maintenance ably enhanced up 1 in Figure <u>G-5</u>)	capability at each on procurement of	n C&C will be test equipment	
3. (T <u>8</u>	To alle	viate the commu	nications problem	a C&C 'Detach-	-
			made to Chief, M		
-	-		ently approved ar		
follows	-	-			
e. "	That SOG	Logistics Offic	er procure the eq	uipment	
specifie		agraph (b(2)(c))	above, for replac		
		eipt of AN/PRC-9 tical radios.	00, C&C Detachment	turn in	
с, ч	That C&C	Detachments ret	ain only those HT	-l radios	i
		p defense.			-
			turn in all PRT- in to depot for c		
•		-	er procure test eq		2
			nat is currently :		2
		owned of the			
4. (28)	In the c	ourse of the su	rvey of the C&C De	etachment	
			rvey of the C&C De orks were delineat		16.4

(8) Director, MACSOG-60 Letter of 29 May 1969, Subject.
 Communications Requirements for Command and Control Detachments."

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FIGURE <u>G-4</u> (28) RECOMMENDED COMMUNICATIONS EQUIPMENT LIST (PS)

····	CCN	ccs	ccc	Total
Fixed Station				
AN/FGC-25X	13	7	4	24
AN/FGC-58x	-	-	-	-
AN/GRC-106	6	4	2	12
MD-522/GRC	6	4	2	12
AN/GRC-142	2	2	-	ង
AN/FRC-93	8	6	3	17
AN/PRC-74B	7	5	6	18
RT-524	7	6	8	21
Team Radio				
PRC-77	60	60	60	180
PRC-25	-	-	-	-
PRC-90	60	60	60	180
PRC-64	15	15	15	45
PRC-74B	10	, 5	5	20

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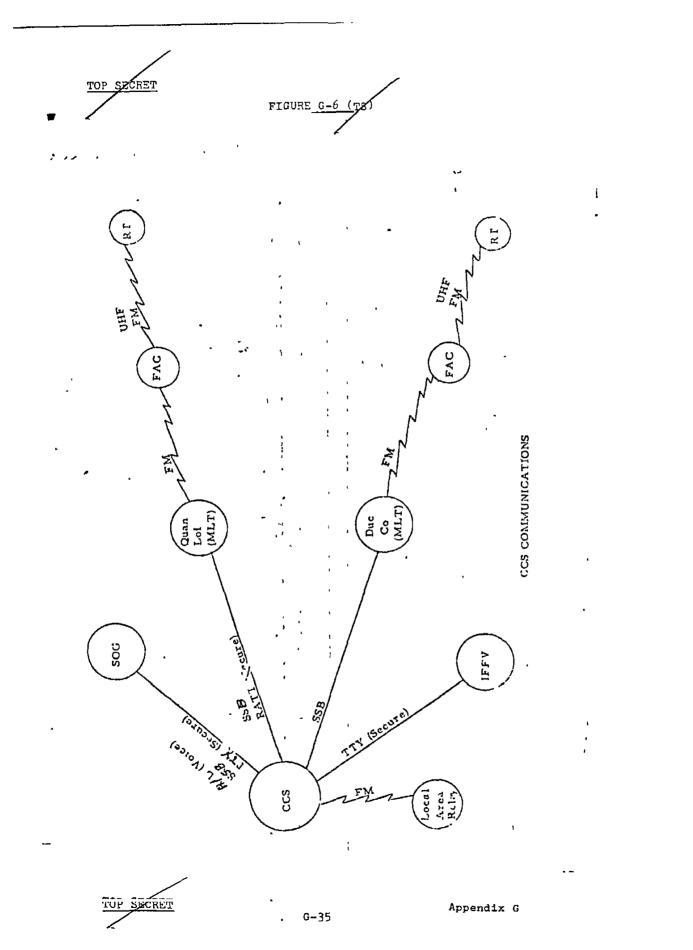
TOT SECRET

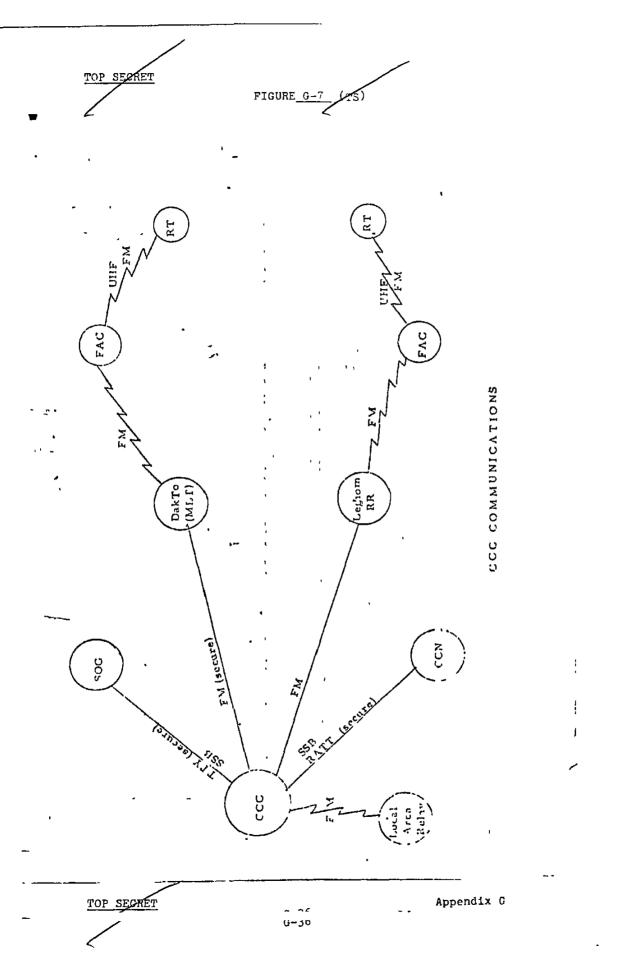
FIGURE <u>6-5 (75</u>) RECOMMENDED TEST EQUIPMENT LIST (78)

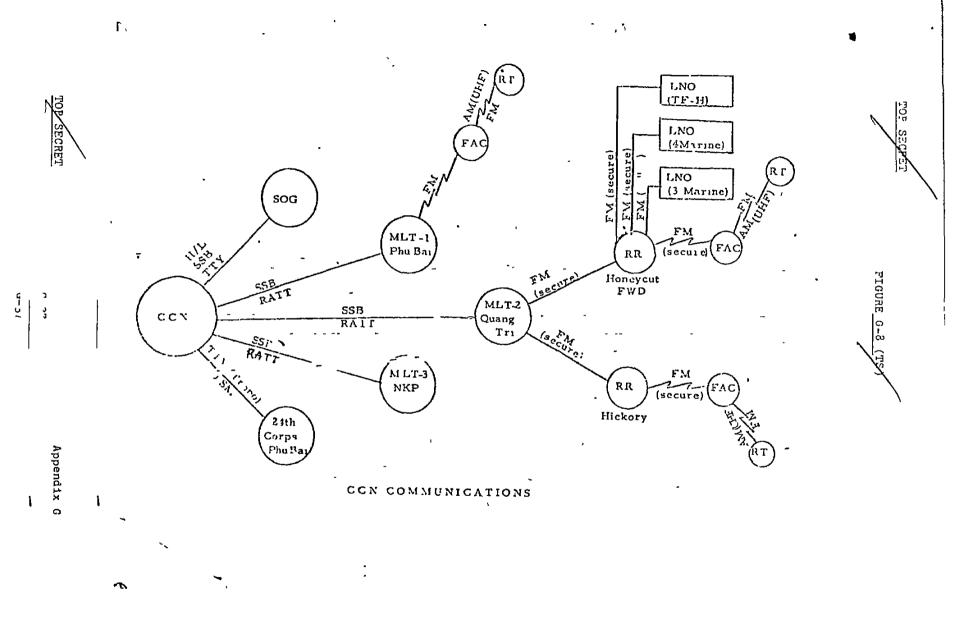
	CCN	CCS	ccc	Total
Oscilloscope (AN/USM-140A)	1	l	1	3
Signal Generator, RF				
SG/URM-25D (AM) AN/URM-48 (FM)	1 1	1 1	1 1	3 3
Audio Generator, HP 200CD	l	l	l	3
Multimeter, TS-352 B/U	1	l	1	3
Vacumn Tube Volt Meter				
ME-26 ME-30/U (RF)	1 1	1 1	1 1	3 3
Frequency Counter, AN/USM-207	1	1	1	3
Tube Tester, TF-2/U	1	l	1	3
Transistor Test Set, TS-1836 B/U	1	l	1	3
Capacitor, Analyzer, ZM-73 A/U	1	l	1	3
Wattmeter, AN-URM-120	1	1	1	3
Dummy Load, DA-75/U	1	1	l	3
Teletype Test Set, AN/UGM-1	1	1	1	3

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TOP SECTIT	
N. 175) TACTICAL RADIO EQUIPMENT	<u>1</u>
1. (18) AS a means of improving reconnelssance team	2
communications, Chief, MACSOG, in June 1969, submitted a	<u>3</u>
material requirement to COMUSHACV for a secure, short-range	4
tactical communications system capable of operating in the	<u>5</u>
VHF range (30-72 MHZ). The overall weight of the system	<u>6</u>
desired would not exceed 20 pounds including the security	<u>7</u>
device, radio and power supply. In submitting this request,	<u>8</u>
it was noted that reconnaissance teams had been comprimised	<u>9</u>
in the past by the enemy monitoring unsecure tactical nets	<u>10</u>
and currently available equipment was not extensively	<u>11</u>
utilized due to its excessive weight.*	12
2. (PS) Data on the primary tactical radio equipment used	<u>13</u>
by MACSOG field units in 1969 is given below.	<u>14</u>
a. RS-1 (AN/GRC-109) provides reliable medium and	<u>15</u>
long-range communications over a wide range of climatic	<u>16</u>
conditions in a portable package.	<u>17</u>
(1) <u>Powe</u> r. 12 watts.	<u>18</u>
(2) Frequency Range. Transmit, 3-22 MHZ; receive, 3-2 (3, Weignt. 80 pounds. (Includes transmitter, receive)	24 MHZ.
power supply, and hand crank gererator) b. AN/PRC-74 is a low-powered/transistorized, single	<u>20</u>
medium range sideband radio for voice or CW communications.	<u>21</u>
(1) Power. 15 watts.	22
 (2) Frequency Range. 2-12 MHZ. (3) Weight. 30 pounds. 	<u>23</u>
c. AN/PRC-25 and AN/PRC-77 are standard back pack	24
tactical VHF FM radios. The basic difference is that the	25
PRC-77 is configured to be used with the KY-38 speech	<u>26</u>
security device.	<u>27</u>
(1) Power. 2 watts.	28
(2) Frequency Range. 30-75.95 MHZ. (3) Weight	<u>29</u>
	<u>30</u>
1. PRC-25. 23.5 pounds. 2. PRC-77. 42 pounds. (with KY-38)	<u>31</u>

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* (@) Chief, MACSOG Letter of 6 June 1969, Subject. "ENSURE Request."

* (0) Chief, MACSOG Letter of 6 June 1969, Subject. "ENSURE Request." TOP SECRET Appendix 6

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TOP SECRET	
d AN/UPC 10 15 0 postable many function i	, ,
d. AN/URC-10 is a portable radio transceiver designed	
as an energency dir-sea recould radie. It is used for	2
ground-to-air communications, and transmits UhF voice of	
tone beacon signal on one pre-set UHF frequency.	<u>4</u>
(1) <u>Power</u> 200 milli-watts (2) <u>Frequency Range</u> . 240-260 MHZ (3) <u>Weight</u> . 27 ounces	<u>5</u> 6
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TOP SECRET

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Appendix G

G-39

ubberrary a

TOP SECTET TAB 1 TO APPENDIN G CODEWORDS, NICKNAMES AND CALL SIGNS (1) ALLEY CAT. . . . Call sign of ABCCC at night (DMZ, Laos, BARREL ROLL area) ALASKA . . . Thu Duc ARC LIGHT. . . . B-52 Strike ARIZONA. . . . Cambodia BARRELL ROLL . . Northwest area of Laos BLUE EAGLE . . . EC-121 flying PSYOP missions out of Danang/Saigon BORDEN(C). . . Diversionary program in NVN (TSLD) BRIGHAM. Call sign for GCI at Udorn AFB, Thailand BRIGHT LIGHT . . JPRC recovery mission BROWN ANCHOR . KC-135 refueling tracks (also RED, WHITE, BLUE, TAN and GREENO CADO Maritime intelligence, PSYOP and/or cross beach mission CALIFORNIA . . . Russia CANDLES. Radio tapes COLD TURKEY . . PSYOPS material (leaflets, gift kits, radios) COMBAT SPEAR . . 15th Air Commando Squadron, C-130s COMMANDO HUNT . 7th Air Force Brogram for enemy interdiction into Laos (778) COVEY. Call sign for TIGERHOUND Forward Air Controller (FAC) Tab 1 to G-40 Appendix G

TOP CFET CFACKER BCM. . . C-123 or C-134 assigned to SOG CRICTET. Call sign of ABCCC auring day (STEEL TIGER/ BARRELL ROLL DIAMOND HEAD . . Use of people sniffers DUFFEL BAG . . . Employment of DCPG resources in Southeast Asia for purposes other than to impeae infiltration from KVA to SVN Air supported antipersonnel sub-system of IGLOO WHITE Program DUMP TRUCK . DUST COVER . . . Modular transportable sensor data collection and processing system DUEL BLADE . . . Ground obstacle system to impete infiltra-tion in IGLOO WHITE Program EGGS Gift kits ELDEST SON . . . Contaminated ammunition program (TStD) ELPASO COMUSMACV OPLAN for overt ground operations across Route 9 in Laos FOOTBOY(C) . . . SOG operations in NVN (TSED) FORAE(C) Project associated with the diversionary program in NVN (TSLD) HAILSTONES . . . M-4A resupply containers HAWAII Camp Long Thanh HEAVY HOOK . . . SOG C-123s HEAVY MOW. . . . Two of the above C-123s on loan from the GRC HILLSBORO. . . . (C-130) an Airborne Command Control Center which directs both FAC (0-1E) and high performance aircraft auring aaylight hours. HUMIDOR(C) . . . PSYOPS Program under FOOTBOY(C) (TSED) Tab 1 to CRET Appendix G G-41

TOP SECRET LCE CUDES. . . . Leaflets IGLOO WHITE. . . DCPG sponsored anti-infiltration program INSISTENCE(S). . MACSOG maritime operations in coordination with MARKET TIME to crevent infiltration by sea into SVN INVERT Call sign of GCI radar at NKP, Thailand IRON HAND. . . , Anti-SAM missions IVORY TRUNK. . . Use of elephants JELLY BEANS. . . Mail MAINE , Communist China MIDRIFF(C) . . . Air operations in support of FOOTBOY(@)(TSLD) MUD RIVER. . . . Air supported antivehicular sub-system of the IGLOO WHITE Program LUSTARD FLANK. . Call sign for VHF radio located in OP-32. MINT SOG maritime interdiction mission NEW YORK North Vietnam NICKLE STEEL . . SOG operations in the DMZ (TSLD) OODLES(C). . . Project associated with the diversionary program in NVN (TSLD) PANAMA Call sign for GCI radar at Danang AFB. PARADISE . . . Cu Lao Cham Island (TSLD) PARBOIL(C) . . . Maritime operations in support of FOOTBOY(0) (TSLD) PARFAIT(C) . . . FOOTBOY(C) SSPL pseudo organization in NVN (25) PEANUTS. . . . Radios Tab 1 to CRET G-42 Appendix G

TOP SECRET			
	Project associated with the aive program in NVN (TSLD)	rsionary	
PRAIFIE FIRE(C).	Cross-borcer operations into Lao	s (TELD)	
	COMUSHACV operation to cut Route Laos	110 in	
	COMUSMACV operation to cut Route Ashau Valley	547 in the	
PROJECT JENNY	Airborne (EC-121) propaganda bro	adcasts	
ROLLING THUNDER	Area in NVN North of Tally Ho ar	ea	
SALEM HOUSE	Cross-border operations into Cam	bodia (TSED)	
	Project associated with the dive program in NVN (TSLD)	rsionary	
SOAP CHIPS	PSYOPS booklets		
STEEL TIGER	Panhandle area of Laos		
	Area extending from southern bor to the southern border of Route (
TAR HEELS	Incapacitating gas		
TEAR DROPS	Commodities for the Ho Chi Minh	Trail	
THUNDER CLOUD :	PW snatch missions in Laos/Cambo	dia	
TIGER HOUND			(b)(1 (b)(3
	Alroorse operations in su port o. (TSLD)	f FOOTBOY (C)	
TOTEM POLE	Vire tap missions		
TREAT	In-country black propaganda		
TOP_SECRET	G-43	Tab 1 to Appendix G	

•	TOP SECRET	rroject associated (its the diversionary program in NVK (TSLD)
	WATERBOY	Call sign for the CCI radar a Tong Ha, RVN
	WILD WEASEL	Aircraft employing electronic detection equipment used to detect and destroy SAM sites
	YOUNG TIGERS	SAC program for re-locating KC-135s to Taiwan in support of an increased B-52 effort

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Tab l to Appendix G