



NATIONAL SECURITY AGENCY
WASHINGTON 25, D. C.

Serial: 000539-S
8 Dec 54

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SUBJECT: Report of Communications Security Violations

TO: Commander
U. S. Air Force Security Service
San Antonio, Texas

1. Attached is the quarterly (April through June 1954) compilation of communications security violations reported to or noted by this Agency which occurred in communications of those Air Force stations which handle COMINT traffic. You have been notified of completed evaluations of possible compromises which are reported herein as violations.

2. This report is furnished primarily for guidance in improving the security of COMINT communications. Similar reports are forwarded to Chief, Army Security Agency, and Chief of Naval Operations. Upon request, additional copies of this report will be provided in sufficient quantity for dissemination to those activities under your command engaged in COMINT operations.

3. Extracts from this quarterly summary may be classified SECRET if the extracts are restricted to lists of violations which involve messages classified no higher than SECRET. For example, the list of violations committed by an activity which originates messages classified no higher than SECRET may be extracted and forwarded to that activity as SECRET material. The key list is SECRET in classification.

4. This correspondence may be downgraded to SECRET upon removal of Inclosure 1.

FOR THE DIRECTOR:

GEO. E. CAMPBELL
Colonel AGC
Adjutant General

Declassified and approved for release by NSA on 05-15-2014 pursuant to E.O. 13526

2 Incls:

- 1. Communications Security Violations by Air Force Stations.
- 2. Key List of Air Force Violations.

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cc:

NSA Europe
 NSA United Kingdom
 NSA Far East
 NSA Alaska
 NSA Pacific
 AG
 C/S
 COMSEC (3)
 S/ASST ←
 COM
 PROD
 O6B
 411
 412
 413

M/R: This is a compilation of communications security violations committed by Air Force COMINT stations during April, May, and June 1954. A similar report will be forwarded to Chief, ASA and CNO.
 10 copies furnished USAFSS.

J. V. Kelly
 J. V. Kelly, 413-2, 60454/dmp

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~~TOP SECRET~~~~TOP SECRET~~COMMUNICATIONS SECURITY VIOLATIONS BY AIR FORCES STATIONS

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-33</u>			
<u>APRIL</u>			
011300Z	ADK	3d	Broke on VEQEU vice VEQEK
020515Z	AGN	3a	Broke on FSPPZ vice FSPOC
130845Z	CEY	3c	Broke on QVIBQ vice QBIVQ
232232Z	DOB	3c	Broke on CRGCX vice CRGZX
262220Z	EBM	15	Omitted traffic type designator
280045Z	EFR	3a	Broke on HPWQB vice APWQB
<u>MAY</u>			
060820Z	AGN	7	Broke using trigraph AQE
<u>JUNE</u>			
050030Z	AIX	3b	Broke on UWDRN vice UMDRN
251201Z		8	Used multiswitch setting 12345
251201Z		8	Used multiswitch setting 12345
<u>USA-34C</u>			
<u>APRIL</u>			
24 April		11	Operator failed to switch to cipher
<u>USA-38</u>			
<u>APRIL</u>			
101215Z	COJ	1	Broke on AM rotor arrangement
121720Z	DFP	3d	Broke on NIYLV vice NIQLV
141530Z	DRY	3a	Broke on WXGZN vice WXZGN
180640Z	FBI	7	Broke using trigraph FBT
222213Z	GUL	3d	Broke on ZQROY vice ZGROY
250420Z	HNY	3d	Broke on QQEYW vice QYEYW
271715Z	IDG	3d	Broke on STZKZ vice STQKZ
<u>MAY</u>			
051215Z	BAO	3c	Broke on ALLYJ vice ILLYJ
120305Z	BWD	3d	Broke on MLUNP vice TLUNP

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Incl 1

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~~TOP SECRET~~~~TOP SECRET~~VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-38 (Cont'd)</u>			
<u>MAY (Cont'd)</u>			
190120Z	DGG	3b	Broke on FZKKV vice DZKKV
301305Z	FEM	3d	Broke on CYWCB vice CYFCB
<u>JUNE</u>			
011700Z	APA	16	Third rotor failed to step as scheduled
011700Z	AFF	16	Third rotor failed to step as scheduled
021855Z	ALQ	3d	Broke on RBHUR vice RBHUU
032030Z	AQZ	3d	Broke on VWQOK vice VWQOF
092015Z	BXT	16	Third rotor failed at counter reading 626, second rotor failed at counter reading 1276
091320Z	BWQ	16	First and third rotors failed at counter reading 1821, second rotor failed at counter reading 2471
211920Z	EWG	3d	Broke on PHDJA vice PHDJZ
<u>USA-38B</u>			
<u>APRIL</u>			
150114Z	CPO	3d	Broke on VJDGY vice VJDGH
260205Z	EZJ	3d	Broke on YMVCF vice YAVCF
<u>MAY</u>			
171854Z	DED	3a	Broke on KYXSU vice KYSXU
192050Z	DPQ	3c	Broke on LBHTB vice LPHTB
211825Z	ECD	3a	Broke on HNFHW vice HNHFW
261710Z	FHE	3b	Broke on PTABZ vice PTAYX
<u>JUNE</u>			
190220Z	HTO	7	Broke using trigraph HTN
222040Z	IUW	3d	Broke on KVYRD vice KNYRD

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-51</u>			
<u>APRIL</u>			
010100Z	AAD	10	Message indicator was derived using deciphering procedure
030115Z	AVF	3d	Broke on UGSJU vice UUSJU
032315Z	BFO	3d	Broke on EUXIQ vice EUXTQ
6 April		11	Operator failed to switch to cipher
070945Z	GNK	3d	Broke on EXTHK vice EXTHR
071600Z	CYE	3d	Broke on QYKEX vice OYKEX
130005Z	EKN	3d	Broke on DVNYU vice DVNYW

MAY

012335Z	AKP	3a	Broke on YVKGK vice YVGKC
020340Z	AMQ	3d	Broke on AONMJ vice AONAJ
030735Z		9a	Broke on BB vice FF
030800Z	AFS	9a	Broke on BB vice FF
030816Z	AFH	9a	Broke on BB vice FF
030831Z	AHP	9a	Broke on BB vice FF
121042Z		9a	Broke on GG vice HH
121044Z		9a	Broke on GG vice HH
121048Z		9a	Broke on GG vice HH
121051Z		9a	Broke on GG vice HH
200233Z	DDN	3c	Broke on DXGPB vice DXCPB
200820Z	FDG	7	Broke using trigraph DFG
201545Z	DHX	3c	Broke on USHLO vice USHLU
201545Z	DJA	3d	Broke on IBIYE vice IBIHE

JUNE

141045Z		6	Alignment in clear AGFOR
20 June		13	Used incorrect codeword
30 June		14	TOP SECRET codeword message enciphered in non-COMINT system

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-52</u>			
<u>APRIL</u>			
021240Z	AIW	1	Broke on AM rotor arrangement
160120Z	CTR	3d	Broke on ZFZZS vice ZFZZB
230200Z	DWT	2	Used key list assigned to USA-51
230430Z	DWV	2	Used key list assigned to USA-51
230815Z	DXD	2	Used key list assigned to USA-51
230911Z	DXG	2	Used key list assigned to USA-51
250100Z	EFN	3d	Broke on JKUPI vice JKIPO
<u>MAY</u>			
270210Z	DLX	3d	Broke on IJIBN vice ISIBN
<u>USA-53</u>			
<u>APRIL</u>			
021900Z	ARC	3d	Broke on RGHXB vice QGHQX
030930Z	AYL	3d	Broke on VKRTD vice VKRTY
032330Z	BKG	7	Broke using trigraph BGK
050200Z	BRJ	3d	Broke on LGCQJ vice LGCQT
070045Z	CJW	9b	Broke on AA vice BB
070210Z	CKV	9b	Broke on AA vice BB
070230Z	CLR	9b	Broke on AA vice BB
110430Z	EHJ	3d	Broke on WASXZ vice WASXS
111700Z	ERE	3d	Broke on WYFIT vice WYOIT
121500Z	FDY	3d	Broke on GKJOF vice GPJOF
141915Z	GBA	3d	Broke on RPEIW vice YPEIW
161800Z	GOH	3c	Broke on YCRQG vice YCRQJ
300245Z	MDO	3d	Broke on HTTCQ vice HTTCD
<u>MAY</u>			
020105Z	AGS	7	Broke using trigraph AGE
13 May		14	TS CW info enciphered in non-COMINT system
270540Z	BTJ	3d	Broke on SPTXO vice SPTXF

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-53 (Cont'd)</u>			
<u>JUNE</u>			
160301Z		1	Broke on PM rotor arrangement
160915Z		1	Broke on PM rotor arrangement
201307Z	GMC	3d	Broke on VSFLG vice VSFXG
<u>USA-54</u>			
<u>APRIL</u>			
042345Z	BXM	3d	Broke on YRKLI vice YKKLI
050420Z	BZB	10	Message indicator was derived using deciphering procedure
081020Z	DUT	3d	Broke on MVJST vice WVJST
240845Z	HCL	3b	Broke on SJCVS vice SJCUS
<u>MAY</u>			
110750Z	CHW	3d	Broke on ANPRP vice ANORP
<u>JUNE</u>			
041540Z	CKJ	3d	Broke on TJAMO vice TJAMD
091401Z	EDV	9a	Broke on BB vice AA
130615Z	EWF	7	Broke using trigraph EWF
151040Z	FFJ	2	13 messages enciphered using key list assigned to USA-54A
171025Z	FQZ	3d	Broke on WWJUX vice WWZUX
190835Z	GBQ	3d	Broke on HFCNB vice JFDNB
271530Z		16	Random rotor failed to advance
<u>USA-54A</u>			
<u>APRIL</u>			
030245Z	AID	3c	Broke on LDRWN vice LDRWM
040030Z	ANQ	2	Used key list assigned to USA-59
040510Z	ANS	2	Used key list assigned to USA-59

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-54A (Cont'd)</u>			
<u>APRIL (Cont'd)</u>			
040510Z	ANY	2	Used key list assigned to USA-59
040510Z	ANZ	2	Used key list assigned to USA-59
090615Z	BJK	3b	Broke on SWHIIH vice RWHIIH
110650Z	BPT	3d	Broke on TOVVO vice TOVLO
150130Z	CEJ	3b	Broke on WXYGY vice WXXGY
260635Z	EFK	3a	Broke on JUXLC vice JULXC
270620Z	EHD	3d	Broke on OSNWX vice OSNWR

MAY

020035Z	AEN	3d	Broke on DXUAH vice DXAVH
021930Z	AIG	3b	Broke on IXNUZ vice IXBUZ
061004Z	AXQ	10	Message indicator was derived using deciphering procedure
190335Z	DKX	3b	Broke on SDFHQ vice SDEHQ
200910Z	DSM	10	Message indicator was derived using deciphering procedure
260650Z	FCA	3a	Broke on VUXRD vice VURXD
270115Z	FFG	3b	Broke on XFAEY vice EFAEY

JUNE

020530Z	AHM	3d	Broke on WYMUK vice WYMUX
040100Z	BCG	3c	Broke on MSLIC vice MSLIP
040920Z	BFL	3c	Broke on AOVLP vice APVLP
132350Z	DRM	3d	Broke on BWTGB vice BWTGR
180356Z	EPB	3d	Broke on XKJER vice CMJEM
251855Z	GAT	3d	Broke on ANVCY vice FNVCY

USA-55

APRIL

152110Z	BQR	3b	Broke on IPZMO vice JPZMO
260011Z	DEY	3c	Broke on TQFOI vice CQFOI
272135Z	DOJ	3d	Broke on WCHPT vice WCHPM

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-55 (Cont'd)</u>			
<u>MAY</u>			
070005Z	AON	3d	Broke on VSQEP vice VSTET
220030Z	CJV	3d	Broke on RKGBA vice RRGBA
<u>JUNE</u>			
212115Z	BSI	3b	Broke on KFNHO vice KFOHO
<u>USA-56</u>			
<u>APRIL</u>			
021117Z	ALU	3d	Broke on SJRDJ vice RDRDJ
060805Z	BJQ	5	Deciphered to YRZNV - broke on YRZNV
062147Z	BNG	10	Enciphered message indicator using decipher procedure
062208Z	BPI	3d	Broke on SZQWR vice SZSYI
12 April		11	Transmitted clear text tape
182100Z	ERW	7	Broke using trigraph EXW
192103Z	FCR	9a	Broke on BB vice AA
210827Z	FOQ	10	Message indicator derived using deciphering procedure
291002Z	HYR	5	Alignment derived using procedure for first message of cryptoperiod
<u>MAY</u>			
062352Z	BTN	1	Broke on AM rotor arrangement
090700Z	CSF	1	Broke on PM rotor arrangement
090705Z	CSD	1	Broke on PM rotor arrangement
090710Z	CSH	1	Broke on PM rotor arrangement
090715Z	CSK	1	Broke on PM rotor arrangement
090920Z	CSO	1	Broke on PM rotor arrangement
090855Z	CSS	1	Broke on PM rotor arrangement
090900Z	CST	1	Broke on PM rotor arrangement

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-56 (Cont'd)</u>			
<u>MAY (Cont'd)</u>			
090905Z	CSV	1	Broke on PM rotor arrangement
090910Z	CTA	1	Broke on PM rotor arrangement
090915Z	CTB	1	Broke on PM rotor arrangement
090926Z	CTC	1	Broke on PM rotor arrangement
090927Z	CTL	1	Broke on PM rotor arrangement
090930Z	CTG	1	Broke on PM rotor arrangement
090928Z	CTN	1	Broke on PM rotor arrangement
090931Z	CTP	1	Broke on PM rotor arrangement
152127Z	EGP	3b	Broke on WKLJE vice WKKJE
242124Z	GIR	3c	Broke on EOTOV vice BOTOV

JUNE

200600Z	EQV	3c	Broke on QINCU vice QYNCU
302139Z		16	Fourth rotor failed to step as scheduled

USA-57

APRIL

170540Z	ETX	3c	Broke on TKDJQ vice GKDQJ
280240Z	GRV	9a	Broke on AA vice BB
280250Z	GRW	9a	Broke on AA vice BB
280300Z	GSA	9a	Broke on AA vice BB
280310Z	GSB	9a	Broke on AA vice BB

MAY

220515Z	KIG	3d	Broke on MSLZL vice MJLZL
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JUNE

051105Z	BXF	3a	Broke on ONXSY vice ONSXY
161530Z	GST	3a	Broke on BDQXF vice BDQFX

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<u>USA-57A</u>			
<u>APRIL</u>			
012340Z	ADE	3d	Broke on LANFA vice LANEX
092350Z	BCZ	3d	Broke on QYNXM vice QYWXM
280435Z	DJP	3d	Broke on VGRSQ vice VGRSY
<u>MAY</u>			
020617Z	AIJ	4	Reused indicator AAIJRSWXL
042350Z	APO	10	Message indicator was derived using deciphering procedure
080615Z	BJC	3d	Broke on ESESF vice FSKSF
230350Z	DNK	10	Message indicator was derived using deciphering procedure
<u>JUNE</u>			
160115Z	CUN	3d	Broke on LJAWV vice LTAWV
<u>6910th SG</u>			
<u>APRIL</u>			
18 April		12	Caused by faulty key tape
<u>MAY</u>			
121100Z		1	Broke on PM rotor arrangement
121150Z		1	Broke on PM rotor arrangement
301515Z		1	Broke on AM rotor arrangement
301515Z		1	Broke on AM rotor arrangement
301515Z		1	Broke on AM rotor arrangement
301935Z	DSZ	1	Broke on AM rotor arrangement
301940Z		1	Broke on AM rotor arrangement
302100Z	DTH	1	Broke on AM rotor arrangement
302200Z	DTJ	1	Broke on AM rotor arrangement

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<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>6910th SG (Cont'd)</u>			
<u>JUNE</u>			
2 June		12	Caused by torn tape
3 June		11	Cause unknown
111300Z	BEH	1	Broke on AM rotor arrangement
181730Z	BXY	3d	Broke on NGXGR vice NGMGR
25 June		12	Tape contained consecutive blank characters

6920th SG

APRIL

040455Z		5	Alignment derived using procedure for first message of cryptoperiod
231330Z		1	Broke on AM rotor arrangement
231400Z		1	Broke on AM rotor arrangement
231405Z		1	Broke on AM rotor arrangement
231450Z		1	Broke on AM rotor arrangement

MAY

131320Z		1	Broke on AM rotor arrangement
14 May		13	COMINT info transmitted to weather station
19 May		11	Switched to text before turning off TD
290744Z	EEA	3d	Broke on MM CIA vice MZCIA

JUNE

091400Z		1	Broke on AM rotor arrangement
100400Z		8	Used multiswitch setting 42135

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>1st WEATHER WING</u>			
<u>JUNE</u>			
070508Z		11	Operator switched to "text" before turning off TD
072050Z		11	Operator switched to "text" before turning off TD
<u>SSO 3RD AF</u>			
<u>APRIL</u>			
6 April		11	Operator failed to switch to cipher
6 April		17	Reuse of key tape
<u>JUNE</u>			
9 June		13	TOP SECRET codeword transmitted in clear at end of encrypted tape
<u>SSO SAC</u>			
<u>JUNE</u>			
17 June		11	Key tape ran out
23 June		11	Operator failed to turn off TD before switching to text
<u>SPECIAL OPERATING CENTER HIGH WYCOMBE</u>			
<u>APRIL</u>			
15 April		11	Operator in "text" while requesting a correction

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<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
			<u>USAFSS</u>
			<u>MAY</u>
6 May		11	Operator in "text" while requesting a correction
			<u>JUNE</u>
21 June		13	SECRET message delivered as unclassified

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~~SECRET~~~~SECRET~~KEY LIST OF AIR FORCE VIOLATIONSApr., May., Jun., 1954ROTOR ARRANGEMENT

1. Use of a rotor arrangement for an inappropriate cryptoperiod, day or month. (Reference AFSAG 1262, para 5006a(1))
2. Use of a rotor arrangement from a key list assigned to another station. (Reference AFSAG 1262, para 5003b)

ROTOR ALIGNMENTS

3. Discrepancy between the message rotor alignment resulting from decipherment of the message indicator and the message rotor alignment actually required to decipher the message, although the latter was correctly derived. The discrepancy involved (a) transposition of letters, (b) substitution of a letter alphabetically adjacent to the correct letter, (c) substitution of a phonetically similar letter, or (d) errors in encipherment.
4. Identical message indicators appeared on different messages (or transmission sections) enciphered on the same machine. Use of the message rotor alignment resulting from decipherment of the message indicator allowed decipherment of the first but not the second message. The message rotor alignment actually used for encipherment of the second message was properly tailed to the final alignment of the first message.
5. Failure to tail previously enciphered message. (Reference AFSAG 1262, para 6002a(4))
6. The message rotor alignment was transmitted in the clear as the last five letters of the message indicator. (Reference AFSAG 1262, para 6002a(5))

KEY GROUP

7. The trigraphic key-group indicator in the message indicator did not correspond to the key group actually used for encipherment. Reuse of a key group was not involved. (Reference AFSAG 1262, para 5004b)

MACHINE DESIGNATOR AND MULTISWITCH SETTING

8. Use of an unauthorized multiswitch setting. (Reference AFSAG 1262, para 6002a(2) or AFSAG 1231b, para 6003a(1))

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