



NATIONAL SECURITY AGENCY  
WASHINGTON 25, D. C.

Serial:1604  
14 Mar 55

~~TOP SECRET~~

SUBJECT: Report of Communications Security Violations

TO: Chief, Army Security Agency  
The Pentagon

1. Attached is the quarterly (October through December 1954) compilation of communications security violations reported to or noted by this Agency which occurred in communications of those Army 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 Commander, U.S. Air Force Security Service 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:

C. M. MILLER, Jr.  
Major AGC  
Asst. Adj. Gen.

2 Incls:

- 1. Communications Security Violations by Army Stations. (40)
- 2. Key List of Army Violations.(40)

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Serial: 1604  
14 Mar 55

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

M/R: This is a compilation of communications security violations committed by Army COMINT stations during October, November, and December, 1954. A similar report will be forwarded to CNO and COMDR, USAFSS. ASA furnished 40 copies. Internal distributions to be furnished a copy of Incl 1 & 2.

/s/ J. J. Martin, 4131-1, 60454, pa, 1a

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COMMUNICATIONS SECURITY VIOLATIONS BY ARMY STATIONS

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USM-3</u>			
<u>OCTOBER</u>			
081216Z	BTL	4d	Broke on OQGH0 vice OQCYO
101215Z	C7S	4d	Broke on NKJIX vice NPJIX
151600Z	DIH	4d	Broke on UXMXI vice UCMXI
260723Z	EFL	5	Broke on IXLQC vice MAANR
300957Z	EOO	6	Broke on QCZDD vice QZCDD
<u>NOVEMBER</u>			
021035Z	EUB	4d	Broke on TLDHV vice TLDHM
021122Z	HHP	4d	Broke on TQLQE vice TQNGE
031040Z	AQV	4b	Broke on BKUOY vice BJUOY
041434Z	FAL	4d	Broke on IJAUk vice LJAUk
080720Z	C7C	9	Broke using trigraph CBC
110310Z	FNS	4d	Broke on SXKHO vice SXKHC
130608Z	EBY	2	Broke on PM rotor arrangement
130606Z	ECQ	2	Broke on PM rotor arrangement
190444Z	Gcy	4d	Broke on WIJJA vice UIDJA
260955Z	GSO	4d	Broke on OVMOC vice OMVOD
280245Z	HOJ	4d	Broke on YGKDG vice NGKDG
<u>DECEMBER</u>			
041215Z	BLC	4b	Broke on VSBRH vice VSARH
060835Z	HSL	4d	Broke on BAAMG vice GAAFG
091413Z	IAA	9	Broke using trigraph IAJ
210632Z	GcX	4b	Broke on VYDUX vice VYDVX
211714Z	JCI	4d	Broke on YXYGG vice YJYGG
241558Z	JRF	9	Broke using trigraph JJF
250945Z	JKZ	4b	Broke on DEWPZ vice DFWPZ
271115Z	JPG	4d	Broke on TBCHN vice TBXHN
271227Z	JPQ	4d	Broke on RPWXT vice RPIXT
292035Z	IEP	4c	Broke on FEXYV vice FVXYV
310655Z	JXJ	4d	Broke on WIZON vice WYZON

USM-4

OCTOBER

010002Z	OQM	14	Broke using decipher card for September
010045Z	OQT	14	Broke using decipher card for September

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USM-4</u> (Cont'd)			
<u>OCTOBER</u> (Cont'd)			
010115Z	OQX	13	Message indicator derived using deciphering procedure
060400Z	PGP	4d	Broke on BQLOQ vice BQLOS
100145Z	QJR	4d	Broke on SXPBU vice SXPBR
131800Z	QSO	4d	Broke on AQPBC vice AQPQC
180022Z	RDY	4d	Broke on KRJXH vice KRJXF
201030Z	RKN	4d	Broke on XQUHG vice XLUHG
211115Z	ROA	4d	Broke on TEGHW vice OEGHW
211313Z	RMT	4d	Broke on EHNIV vice ENUIV
212223Z	RMP	4d	Broke on FYHPW vice FRHPW
220730Z	RSX	4d	Broke on WNLYQ vice WNLYL
250015Z	SFG	4d	Broke on LTSVT vice LTSJT
270003Z	SKM	4b	Broke on WRDLP vice WRDMP
281520Z	SPE	4d	Broke on SHGKG vice NHGKG

NOVEMBER

031745Z	TEB	12a	Broke on DD vice BB
051040Z	TJE	4d	Broke on TINBI vice TIUBI
051810Z	TKJ	4d	Broke on JJDZF vice JJDZX
141005Z	UGC	4d	Broke on WSLZK vice BSLZK

DECEMBER

032000Z	WBL	4d	Broke on DYQAV vice DYDAV
241955Z	XSM	17	Random rotor failed at counter readings 164 and 385
251105Z	XTV	4d	Broke on XGWFV vice LFYVR
290815Z	XXP	12a	Broke on BB vice CC

USM-5

OCTOBER

050515Z	AFQ	4c	Broke on BGYOI vice BCYOI
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USM-6

OCTOBER

30 Oct		15	Classified operator chatter concerning COMINT material
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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USM-7</u>			
<u>OCTOBER</u>			
050001Z	AMN	4d	Broke on WQURP vice JQURP
191652Z	DCH	5	Sent same message indicator for two messages--AADCHZJFMRQ
260742Z	DVL	4c	Broke on POKEG vice POKEC
<u>NOVEMBER</u>			
010135Z	AAL	4d	Broke on HAXYP vice CAXYP
012239Z	AFO	4d	Broke on KSQPS vice KSQPJ
022057Z	ALK	4d	Broke on JOVNG vice JOVNS
191845Z	AYD	1	First rotor reversed rather than straight
191955Z	AYF	1	First rotor reversed rather than straight
192030Z	AYG	1	First rotor reversed rather than straight
290230Z	BDK	4d	Broke on SZJLC vice UZJLC
<u>DECEMBER</u>			
110723Z	DBM	4d	Broke on JWTLX vice JWTLT
180010Z	ARB	4d	Broke on QKWTR vice QKWTO
190423Z	ATU	4d	Broke on NGLRG vice NGLQC
<u>USM-9</u>			
<u>OCTOBER</u>			
090417Z	RIM	4d	Broke on CSGIQ vice CSGIO
131409Z	RYL	12a	Broke on BB vice AA
141956Z	SFF	4d	Broke on OGSHT vice OGSAT
160630Z	AXD	4d	Broke on DJCFU vice IBIKU
190100Z	STG	9	Broke using trigraph SXG
210225Z	TFA	4d	Broke on DPGAM vice DPJAM
230249Z	TKO	12a	Broke on CC vice DD
261930Z	TSX	4d	Broke on EZION vice EZIOW
280210Z	TXH	4d	Broke on CHJLL vice CHJLL
<u>NOVEMBER</u>			
061755Z	UMS	4d	Broke on XLHOK vice XLHOZ
070135Z	VCD	4d	Broke on DLXNJ vice DIANT
110125Z	VJX	4a	Broke on OBSXW vice OBSWX
110705Z	AIL	10	Reused trigraphic key group AIL

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<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USM-9 (Cont'd)</u>			
<u>NOVEMBER (Cont'd)</u>			
131516Z	VRL	4b	Broke on REFSC vice REFSD
131945Z	VRD	2	Broke on AM rotor arrangement
140320Z	VTA	7	Only four letters in rotor alignment group--NPYN
160900Z	WAE	4d	Broke on BNUPQ vice SNUPQ
260125Z	WZK	12a	Broke on BB vice AA
<u>DECEMBER</u>			
021430Z	AKK	9	Broke using trigraph ANK
090905Z	BGS	4d	Broke on LOATI vice LOATP
190345Z	ZHW	4d	Broke on MSRAO vice MSRAD
220155Z	ZOH	4c	Broke on ODTIT vice OZTIT
250534Z	ZWT	4d	Broke on ZTEHI vice ZXEHI
300150Z	ECL	12a	Broke on DD vice AA
310340Z	EOG	7	Omitted traffic type designator
<u>USM-36</u>			
<u>DECEMBER</u>			
091542Z		15	Keyboard operation
<u>USM-44</u>			
<u>DECEMBER</u>			
161723Z		15	Keyboard operation
<u>USM-637</u>			
<u>OCTOBER</u>			
060710Z		1	Reuse of identical rotor arrangement and alignment
<u>ASA EUROPE</u>			
<u>OCTOBER</u>			
030535Z	ALS	4c	Broke on GRDKP vice GRDKD
040600Z	BAX	4c	Broke on PZTAA vice EZTAA

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VIOLATIONS (Cont'd)

<u>DIG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>AGA EUROPE</u> (Cont'd)			
<u>OCTOBER</u> (Cont'd)			
062030Z	CBQ	4d	Broke on QSTFE vice OSTEE
110358Z	- DDV	4b	Broke on DEHFF vice DEHFE
160410Z	ESW	4d	Broke on JFQIN vice JFQAN
212205Z		16	Rotors failed to step
251215Z	HOI	4a	Broke on FTNUE vice FTUNE
281606Z		16	Malfunction of equipment
312000Z	IES	4b	Broke on TCDTZ vice TBDTZ
311327Z		16	Malfunction of equipment

NOVEMBER

220845Z	EZM	4d	Broke on KWHPG vice KWHPZ
251430Z	GKV	4d	Broke on XYBFL vice XYBJL
302120Z	HXF	12a	Broke on CC vice AA
302150Z	HXH	12a	Broke on CC vice AA
302205Z	HXM	12a	Broke on CC vice AA
302215Z	HXP	12a	Broke on CC vice AA
302225Z	HXQ	12a	Broke on CC vice AA
302235Z	HXU	12a	Broke on CC vice AA

DECEMBER

012255Z		15	Keyboard operation
181435Z		12a	Broke on BB vice CC

ASA FAR EAST

OCTOBER

010128Z	AEZ	4d	Broke on UAVYC vice UXVYC
020854Z	AXG	4a	Broke on WEGTO vice WETGO
021019Z	AVO	4a	Broke on HXSDV vice HSXDV
031103Z	BQU	4b	Broke on DCSJJ vice DCSKJ
050900Z	CWY	4d	Broke on FVURB vice ZRVVB
061533Z	DVL	4b	Broke on EMYMC vice EMXMC
070558Z	EGM	4d	Broke on LJGEW vice LJEUW
070928Z	END	4b	Broke on OZJHW vice OZJGW
081207Z	FAM	4d	Broke on GIWAI vice GIWSI
101625Z	GPQ	4c	Broke on NGTUR vice NCTUR
110415Z	HBI	4c	Broke on ODQIZ vice OVQIZ
131601Z	JHD	4c	Broke on ONTUG vice ONTQG
140037Z	JRF	6	Broke on HURDE vice MURDE

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>ASA FAR EAST</u> (Cont'd)			
<u>OCTOBER</u> (Cont'd)			
140521Z	JYH	11	Trigraph blanked in AFSAL 15100
140532Z	JZW	11	Trigraph blanked in AFSAL 15100
140604Z	KAM	11	Trigraph blanked in AFSAL 15100
140735Z	KCI)	4d	Broke on QDXMN vice QDXMK
150011Z	KLN	4c	Broke on IRDHG vice IRVHG
150254Z	KOL	4d	Broke on GEGPL vice GQGPL
150404Z	KSY	4d	Broke on MIMHU vice MIMUU
170433Z	MBC	4d	Broke on AMIKN vice AWLKN
210403Z	NRE	4d	Broke on UNYKE vice URYKE
211231Z	OAD	4c	Broke on UXEDU vice UXCDU
212121Z	OIG	4d	Broke on ACSAH vice AOSAH
221311Z	OOH	8	Broke on BXRRO vice NXRRW
231529Z	PAD	12b	Broke on AA vice BB
241921Z	PNK	4d	Broke on KFCEM vice KFCMM
241933Z	PLC	9	Broke using trigraph POC
252041Z	QEN	4c	Broke on BZPPJ vice PZPPJ
270234Z	RJF	4d	Broke on ZBCSM vice ZOCSM
271923Z	SMJ	4d	Broke on SVLYK vice SVLHK
280210Z	SRT	4a	Broke on IGFHQ vice IGHFQ
280832Z	SYB	4d	Broke on BHGXG vice GXGHG
281807Z	TLQ	4c	Broke on XAZTI vice XAZDI
290543Z	TRE	4b	Broke on XVTRY vice XUTRY
290545Z	TRM	4a	Broke on TJMIN vice TJNIM
301849Z	VNX	4b	Broke on NUXAE vice NVXAE
310103Z	VWH	4d	Broke on KQHOC vice KQHCC

NOVEMBER

011729Z	AHZ	4d	Broke on SWLIO vice SWLIM
031857Z	BMZ	4d	Broke on XARCM vice SHRCM
040533Z	CUC	2	Broke on PM rotor arrangement
081149Z	GFB	4d	Broke on LPUTV vice LOZTV
092005Z	HIN	4d	Broke on IUSJQ vice IUSJG
101343Z	HWS	4c	Broke on HZCJC vice HZCJZ
110003Z	ILB	4a	Broke on ZYDZF vice ZYZDF
160416Z	MJZ	12a	Broke on BB vice AA
161255Z	MMU	7	Only four letters in rotor alignment group--PGAM

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TOP SECRET  
VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>ASA FAR EAST</u> (Cont'd)			
<u>NOVEMBER</u> (Cont'd)			
161619Z	MOH	4d	Broke on YQKSA vice BQKSA
161815Z	MQY	4d	Broke on VMBJG vice GMBJM
162013Z	MTS	4b	Broke on TJJEF vice UJJEF
162141Z	MUG	4d	Broke on RTDIH vice RTDIE
171251Z	NHO	4d	Broke on SIMME vice JMSED
171801Z	NQF	4a	Broke on NCFXA vice NCXFA
171937Z	NRN	4d	Broke on FWHIR vice FWHIK
220833Z	QWX	4d	Broke on TNFAL vice TNFAJ
230619Z	RKR	4d	Broke on YFWUQ vice YJWHQ
230637Z	RLD	4d	Broke on ZDWZJ vice WDWZJ
230730Z	RLA	4d	Broke on NKMHY vice RKMHY
231745Z	RHZ	9	Broke using trigraph RPZ
250459Z	SBZ	13	Message indicator derived using deciphering procedure
291001Z	UDA	4d	Broke on ESRVL vice ESLVL
292115Z	UNM	4d	Broke on EXUGL vice ZVUGL
300851Z	UPF	12a	Broke on BB vice AA

DECEMBER

031821Z	BKQ	4d	Broke on DRXDA vice DRXDV
041325Z	BTQ	4d	Broke on FXPJ vice EDXPJ
060043Z	CKP	4d	Broke on LCWNY vice LCWNZ
121115Z	GWN	4d	Broke on JUTKE vice JTUKI
151901Z	IDX	4d	Broke on FNGPB vice FGVPB
160134Z	IHR	4c	Broke on GGYIB vice CGYIB
161509Z	ILR	4d	Broke on GOHAQ vice GOZQA
190111Z	JTP	4d	Broke on VUFVL vice VULVL
191025Z	KAE	4d	Broke on RSZLF vice RSZLL
200035Z	KKR	4a	Broke on BNLFS vice BNLSF
201959Z	KSX	4d	Broke on VOFQG vice VOFIG
210011Z	KUN	13	Message indicator derived using deciphering procedure
210517Z	LAF	6	Broke on JXXFR vice JXFFR
231933Z	LTO	4d	Broke on XKAKD vice XKRKD
250945Z	MJA	4d	Broke on VVXGR vice VVXGM
290408Z	OWM	4d	Broke on XHGFE vice LHGFE

501ST CRG

OCTOBER

040005Z		15	Transmitted clear text tape
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KEY LIST OF ARMY VIOLATIONSOCT., NOV., & DEC., 1954ROTOR ARRANGEMENT

1. Use for encipherment of an incorrect rotor arrangement and/or alignment. (Reference AFSAG 1262, para 5006a(1) and/or AFSAG 1231B para 6002a(2))
2. Use of a rotor arrangement for an inappropriate cryptoperiod, day, or month. (Reference AFSAG 1262, para 5006a(1))
3. Use for encipherment of superseded rotors.

ROTOR ALIGNMENT AND MESSAGE INDICATOR

4. 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 involves (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.
5. 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.
6. Failure to tail previously enciphered message. (Reference AFSAG 1262, para 6002a(4))
7. Omission or addition of one or more letters to the message indicator.
8. Decipherment of the message indicator resulted in a message rotor alignment identical to the final alignment of the previous message. (Reference AFSAG 1262, para 6002a(4))

KEY GROUP

9. 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)
10. Reuse for encipherment of the same key group. (Reference AFSAG 1262, para 6002b(4))
11. Use for encipherment of an unauthorized key group.

~~SECRET~~MACHINE DESIGNATOR AND MULTISWITCH SETTING

12. The machine designator in the message indicator did not correspond to the multiswitch setting used for encipherment. The messages were (a) correctly enciphered or (b) incorrectly enciphered. (Reference AFSAG 1262, para 6002a(1))

ENCIPHER DECIPHER CARD

13. Incorrect use of an ORCUS enciphering card to produce a message indicator. (Reference AFSAG 1262, para 5005c)
14. Use for encipherment of a noneffective ORCUS enciphering card.

ADDITIONAL VIOLATIONS

15. Transmission in the clear of classified information.
16. Transmission of classified information in monoalphabetic substitution cipher.
17. Transmission of a message in which there was faulty rotor stepping during encipherment. (Reference AFSAG 1262, para 6002a(3))