



NATIONAL SECURITY AGENCY
WASHINGTON 25, D. C.

Serial:1605
14 Mar 55

~~TOP SECRET~~

SUBJECT: Report of Communications Security Violations

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

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 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.

1/1 *declassified*
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.

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. (10)
2. Key List of Air Force Violations. (10)

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Serial: 1605
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cc: NSA Europe
NSA United Kingdom
NSA Far East
NSA Alaska
NSA Pacific
AG
C/S
COMSEC (2)
S/ASST
COM
PROD
O6B
411
413

M/R: This is a compilation of communications security violations committed by Air Force stations during October, November, and December, 1954. A similar report will be forwarded to Chief, ASA, and CNO. USAFSS furnished 10 copies. Furnish each internal addressee a copy of Incl 1 and Incl 2.

/s/ J. J. Martin, 4131-1, 60545, pa, 1a

~~TOP SECRET CONTROL NO. 550598-A~~
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~~TOP SECRET~~~~TOP SECRET~~COMMUNICATIONS SECURITY VIOLATIONS BY AIR FORCE STATIONS

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
			<u>USA-33</u>
			<u>OCTOBER</u>
082321Z		14	Keyboard operation
			<u>NOVEMBER</u>
100755Z	AYO	16	Random rotor failed at counter reading 800
			<u>DECEMBER</u>
220812Z		14	Keyboard operation
			<u>USA-38</u>
			<u>OCTOBER</u>
141445Z	BYZ	12	Message indicator derived using deciphering procedure
291850Z	EBR	4b	Broke on OLLKW vice OLLKV
			<u>NOVEMBER</u>
090425Z	AVT	9	Broke using trigraph AYT
111000Z	BFC	1	Broke on PM rotor arrangement
112215Z	BEY	4c	Broke on MIWZD vice MIWED
			<u>DECEMBER</u>
210445Z	EET	8	TCWWA
240005Z	ELW	1	Broke on rotor arrangement for 25 Dec AM
282214Z	EUK	4d	Broke on MNYRR vice MNYRW
			<u>USA-38B</u>
			<u>OCTOBER</u>
090035Z	CAM	4d	Broke on XTMCW vice XIMCW
			<u>NOVEMBER</u>
030334Z	AIL	4b	Broke on ZFWFK vice ZFWFL
080210Z	CEN	4d	Broke on JSPCI vice JSPCB

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-38B (Cont'd)</u>			
<u>NOVEMBER (Cont'd)</u>			
090005Z	CJY	4d	Broke on PWYAW vice PWYAM
210045Z	EOP	4d	Broke on DCMCC vice DCMCH
230515Z	EWZ	4b	Broke on STZLQ vice STYLQ
<u>USA-51</u>			
<u>OCTOBER</u>			
030535Z	AOH	4d	Broke on GGZMF vice GWZMF
030902Z	APB	4d	Broke on UAGYT vice RAGYT
080225Z	BLS	4d	Broke on WMPUS vice WMPUS
080445Z		14	Keyboard operation
281315Z		1	Broke on AM rotor arrangement
<u>NOVEMBER</u>			
191605Z		14	Keyboard operation
290445Z		15	Faulty key tape
<u>USA-53</u>			
<u>OCTOBER</u>			
042250Z		11	Enciphered message using AFSAK 3424 (A), but used multiswitch setting assigned to AFSAK 3424
220200Z		4d	Broke on LJFNK vice LJFNS
<u>USA-54</u>			
<u>OCTOBER</u>			
081616Z	BWE	16	Random rotor failed to step at counter readings 1761 and 1823
<u>NOVEMBER</u>			
032125Z	AVF	9	Broke using trigraph AVE
061640Z	BOW	9	Broke using trigraph BOZ
080520Z	BVQ	4d	Broke on JAQLD vice JABLD
<u>DECEMBER</u>			
210840Z	EVY	4c	Broke on MCGUP vice MCCUP

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-54A</u>			
<u>OCTOBER</u>			
011201Z	ACV	4d	Broke on YFPLU vice YLPLU
020001Z	AFP	4a	Broke on TKZPJ vice TKPZJ
271127Z	EYI	4d	Broke on UCVGV vice UCUGY
<u>NOVEMBER</u>			
061615Z	BWM	4a	Broke on LSIGZ vice LSIKZ
101220Z	DBN	4d	Broke on WZCMS vice WZCMG
<u>DECEMBER</u>			
041927Z	BQJ	4d	Broke on SESUH vice SOSUH
<u>USA-55</u>			
<u>OCTOBER</u>			
010043Z	AAG	4d	Broke on CKQQS vice AKQQS
020426Z	AEK	16	Random rotor failed to step at counter readings 841 through 843 and 872 through 874
042126Z	AHX	4a	Broke on ACSMV vice ACMSV
172122Z	BAX	4d	Broke on HYJHC vice HYJXC
212138Z	BLF	4d	Broke on YDKVC vice YDKOC
292224Z	CJB	8	DYEOD
<u>NOVEMBER</u>			
022120Z	AEI	4b	Broke on FSNXA vice ESNXA
070452Z	AYB	4d	Broke on DJNWC vice DJNRC
220431Z	NMD	4d	Broke on IDZWD vice IDFWD
220431Z	CMH	4d	Broke on UXRWR vice UIRWR
<u>DECEMBER</u>			
040025Z	OUH	7	Omitted machine designator
<u>USA-56</u>			
<u>OCTOBER</u>			
010005Z		3	Used superseded rotors with new key list



<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-56 (Cont'd)</u>			
<u>OCTOBER (Cont'd)</u>			
010006Z		3	Used superseded rotors with new key list
010007Z		3	Used superseded rotors with new key list
010009Z		3	Used superseded rotors with new key list
152105Z	CXI	4c	Broke on DBRIP vice DBRIB

NOVEMBER

092115Z	BXR	4d	Broke on GYNIO vice AYXIO
180020Z		6	Broke on MXKDA
190013Z	DUA	4d	Broke on IIMYF vice IIHYP
240334Z	ESY	12	Message indicator derived using deciphering procedure

DECEMBER

160011Z	FEK	4d	Broke on UDTHV vice UDTHM
280545Z	INU	1	Broke on AM rotor arrangement
280711Z	IKS	4d	Broke on CRLGW vice CRLSW
282100Z	IQP	4d	Broke on QGWBW vice QSWBW

USA-56A

OCTOBER

111530Z	BAL	4d	Broke on WKPTW vice LKPTW
131330Z		10b	Broke on AA vice EE
202102Z	BTL	4d	Broke on ELJJT vice QLJJT
222102Z	BWW	4c	Broke on SQHHN vice SQJHM
241225Z		1	Broke on AM rotor arrangement

NOVEMBER

090745Z	ASE	4d	Broke on GENFN vice GENON
180755Z	BJM	4d	Broke on LZLFC vice HZLFC
241225Z	BUY	1	Broke on AM rotor arrangement

DECEMBER

080745Z	AUH	4c	Broke on QEJBS vice QBJS
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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
<u>USA-56A (Cont'd)</u>			
<u>DECEMBER (Cont'd)</u>			
132100Z		16	Fourth rotor failed at counter reading 800
141300Z	BNX	4c	Broke on QEWYN vice QGWYN
<u>USA-56B</u>			
<u>OCTOBER</u>			
290420Z		17	DTG should have read 291420Z
<u>DECEMBER</u>			
29 DEC		14	Transmitted clear text tape
<u>USA-57</u>			
<u>OCTOBER</u>			
021440Z	ALK	4d	Broke on HBFAS vice HRFAQ
052335Z	BHJ	4d	Broke on ONIVD vice ONUVD
110710Z		2	Used keylist assigned to USA-57A
110840Z		2	Used keylist assigned to USA-57A
110855Z		2	Used keylist assigned to USA-57A
192045Z	GDW	4b	Broke on GUSXF vice GUTXF
250949Z	HFX	1	Broke on PM rotor arrangement
<u>NOVEMBER</u>			
091446Z	DYN	4d	Broke on GLZPK vice GRZPK
151306Z	FAD	4d	Broke on BVMGX vice GVMGH
151434Z	FAL	4d	Broke on KMPMH vice KDFMH
161115Z	FFJ	1	Broke on PM rotor arrangement
202130Z	GEK	10a	Broke on BB vice AA
210939Z	GMJ	4d	Broke on ZWYTD vice ZMYTD
290945Z	JAD	4d	Broke on VVEHA vice VVELB
<u>DECEMBER</u>			
040925Z	SBD	4d	Broke on VHQFU vice VHYFU
100643Z	EAF	4b	Broke on DMQDV vice DMQDU
221303Z	GSC	4d	Broke on FLULW vice FBULW

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VIOLATIONS (Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
			<u>DET 1, 85TH RSM</u>
			<u>NOVEMBER</u>
14 NOV		14	Classified operator chatter
			<u>6910TH SCTY GP</u>
			<u>OCTOBER</u>
021459Z	AJH	9	Broke using trigraph AJF
231250Z		14	Turned cipher switch on before removing message tape
250910Z	EJM	4d	Broke on YVISA vice MVISA
251330Z	EKK	4d	Broke on EWQSM vice EWTSM
291302Z	FMQ	4d	Broke on YKUWV vice YKUWC
			<u>NOVEMBER</u>
080442Z		14	Clear text tape
101305Z	AYO	16	Random rotor failed at counter reading 800
			<u>DECEMBER</u>
260005Z		15	Key tape stuck
281015Z		2	Broke on PM arrangement
			<u>6920TH SCTY GP</u>
			<u>NOVEMBER</u>
020102Z		14	Keyboard operation
			<u>DECEMBER</u>
091550Z		14	Keyboard operation
160700Z		14	Keyboard operation
			<u>6961ST COMM SQ</u>
			<u>DECEMBER</u>
060750Z		14	Keyboard operation
211923Z		14	Keyboard operation

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VIOLATIONS

(Cont'd)

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
		<u>6961ST COMM SQ (Cont'd)</u>	
		<u>DECEMBER (Cont'd)</u>	
291323Z		14	Keyboard operation
291515Z		14	Keyboard operation
291908Z		15	Key tape ran out

SSO AIR DEFENSE COMMAND, ENT AFB

<u>DTG</u>	<u>TRIGRAPH</u>	<u>KEY NO.</u>	<u>REMARKS</u>
		<u>OCTOBER</u>	
230500Z		14	Keyboard operation

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KEY LIST OF AIR FORCE VIOLATIONS

Oct., Nov., & Dec., 1954

ROTOR 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)
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. 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

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)

MACHINE DESIGNATOR AND MULTISWITCH SETTING

10. 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))

11. Use of an unauthorized multiswitch setting. (Reference AFGAG 1262, para 6002a(2) and/or AFGAG 1231, para 6003a(1))

ENCIPHER DECIPHER CARD

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

ADDITIONAL VIOLATIONS

14. Transmission in the clear of classified information.
15. Transmission of classified information in monoalphabetic substitution cipher.
16. Transmission of a message in which there was faulty rotor stepping during encipherment. (Reference AFGAG 1262, para 6002a(3))
17. Transmission of a message containing an incorrect date-time group.