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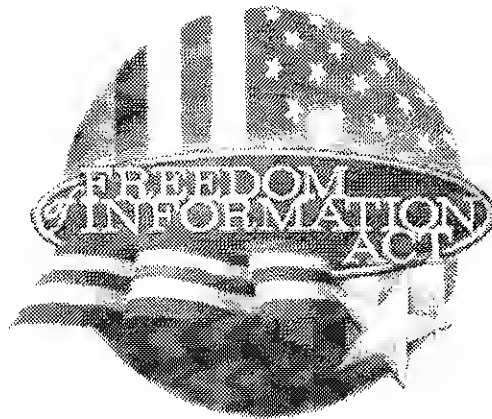
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**FREEDOM OF INFORMATION
AND
PRIVACY ACTS**

SUBJECT: KOREAN AIRLINE FLIGHT 007

PART:1 OF 1



FEDERAL BUREAU OF INVESTIGATION

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KOREAN AIRLINE FLIGHT 007

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~~SECRET~~

MESSAGE RELAY VIA TELETYPE
(RESTRICTED USE)

Date: 9-2-83 PRECEDENCE: IMMEDIATE PRIORITY ROUTINE

FM: DIRECTOR, FBI

TO: SAC WASHINGTON FIELD
ADIC NEW YORK

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
EXCEPT WHERE SHOWN
OTHERWISE

- White House/WH/
- Bureau of Alcohol Tobacco Firearms/BATF/
- Central Intelligence Agency/CIA/
- CIA DCD/DCD/
- Dept. of Energy HQS/DOEHQ/
- Dept. of Energy Germantown DIV/DOE/
- Dept. of Justice/DOJ/
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- HQ AFOSI Bolling AFBDC/AFOSI/
- INSCOM Ft. Meade/INSCOM/
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10-5-87 multiple source
Classified by SP8/af/ab
Declassify on: OADR
274,982

BT

Classification: SECRET

Addressee Internal Distribution

For: _____

149-12981-3

Subject: _____

12 SEP 8 1983

See Attached

Approved By: <i>[Signature]</i>	Originator: <i>[Redacted]</i>	Tele Ext. 4650	Room/Div.: 4247-6 b7C
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FOL/FA # 274,982
APPROV #
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149-12981-3 Attachment.

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The following number is to be used for reference regarding these pages:

149-12981- NR dated 9/30/83

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~~SECRET~~ - EYES ONLY

September 12, 1983

Honorable William P. Clark
Assistant to the President for
National Security Affairs
The White House
Washington, D.C.

10-5-87
Classified by SP8 ay/ab
Declassify on: OADR

Re: Soviet Attack on Korean Airliner
Flight 007, September 1, 1983

Dear Bill:

[REDACTED] b1
[REDACTED] b1

Please let me know if you have any questions or desire further specific information. You will be promptly informed as new matters come to our attention.

Sincerely,

William H. Webster
Director

149-12981-13

Enclosure

- Exec AD Adm. _____
- Exec AD Inv. _____
- Exec AD LES _____
- Asst. Dir.:
- Adm. Servs. _____
- Crim. Inv. _____
- Ident. _____
- Insp. _____
- Intell. _____
- Lab. _____
- Legal Coun. _____
- Off. Cong. & Public Affs. _____
- Rec. Mgnt. _____
- Tech. Servs. _____
- Training _____
- Telephone Rm. _____
- Director's Sec'y _____

~~SECRET~~ - EYES ONLY

DELIVERED BY LIAISON
DATE 9/12/83 GJ/ELF

MAIL ROOM

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 149-12981-13 enclosure

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The following number is to be used for reference regarding these pages:
149-12981-NR dated 9/26/83

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UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

MEMORANDUM

DATE: 10/13/83

TO : DIRECTOR, FBI
FROM : NEW ROCHELLE MRA (26-0)




SUBJECT: INFORMATION CONCERNING
KOREAN AIRLINES FLIGHT 007
DAMV
(OO:NR)



ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10-5-87 BY SP8atj/fah



Enclosed for the Bureau is one copy  b7D




For the information of the Bureau,  b7D



On 10/7/83,  Secret Service, New York City, verified there is no Secret Service Agent in the New York area by the name of  b7C

On the same date,   b7C
b7D

Enclosed letters are self-explanatory and no threats appear  Accusations appear to have been written by an emotionally unstable individual and are furnished for information purposes only. b7D

NRMRA conducting no further investigation at this time.

- 2 - Bureau (Encls. 2) (INFO)
- 1 - New Rochelle

149-12981-16

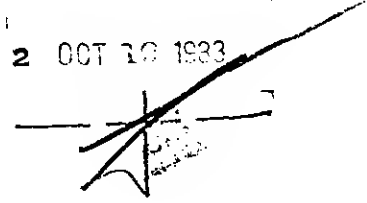
ENCLOSURE ATTACHED

(3) NOV 15 1983

2 OCT 19 1983

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The following number is to be used for reference regarding these pages:
149-12981-16 enclosure

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Memorandum



To : Director Date September 1, 1983
Attn: Personal and Property Crimes
Section Chief John Schreiber, Rm. 5030
From : Brooklyn-Queens (JFKRA)

Subject : Unsubs:
Destruction of Korean Airline
Flight #7 (JFK to Seoul, Korea)
8/31/83
DAMV

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10-5-82 BY SP8 JTB

Re BQ telcall to FBIHQ (Section Chief John Schreiber), 9/1/83

Enclosed for the Bureau are:

- 1. Passenger Manifest for Korean Airlines flight 007, 8/30/83
- 2. Special information sheet re flight 007

Bureau is requested to contact JFKRA if any additional information is requested re captioned matter as flight information is maintained in New York.



149-12981-19

- 2- Bureau (encl 2)
- 2- Bq 149A- (encl 2)
- 1- JFKRA

23 NOV 26 1983

LIN/SANMEIMR 37C
 LIU/CMSTR 34J
 LIU/Y 01J
 C LOMBART/DONMR 09H
 KIM/EKYUMR 20B
 JANG/YT 20K
 JANG/SY 21K
 MA/SJMR 34C
 C MCGETRICK/MARKMR 11B
 METCALF/CHONGMRS 55A
 M METCALF/RITAMISS 55C
 MIN/KYOUNGHUNMR 57A
 NAKAZAWA/TAKESHIMR 47A
 OCAMPO/CMISS 31E
 M OCAMPO/SEMRS 31G
 OKAI/MMR 19G
 OLDHAM/JOHNMR 31H
 OSAKA/NORIYUKIMR 52K
 PAKARANDDOM/SMR 42H
 M PAKARANDDOM/SMR 42K
 PANAGOPOULOS/GMR 53K
 PARK/GRAHAMMSTR 42G
 PARK/HEUNGSEOLMR 52G
 M PARK/MINSIKMR 41D
 PARK/SEUNGHAMR 19A
 PETROSKI/RMR 32K
 M PUTONG/JMRS 31D
 PARK/JAHNGAUNMR 20C
 OMBLERO/A 49C
 RHEEPARK/JAEILMRS 52D
 RYU/GYUNGBEUNMR 40C
 SAYERS/LMR 54K
 M SEO/JOOKMRS 48K
 SHIIKI/SMRS 29B
 SIOW/WOONKWANGMR 34A
 SLATON/JESSIE 27C
 SON/SOJAMRS 22J
 SONG/ANNAMRS 49E
 STECKLER/SMR 37G
 SWIFT/FRANCES 27D
 C SIU/ROBIN 09A
 TAKEMOTO/TMRS 32B
 TIEN/CHIMRS 39A
 TSAO/YUENMR 51C
 WEE/KANGILMR 21A
 WONG/MICHEALMR 27H
 YAMAGUCHI/MMR 29C
 YEH/C 56G
 YELUNG/DIKINGMRS 48B
 YODEN/KAZUKOMS 38C
 YOO/CHUNGSOOMR 18K
 C YU/KABILMR 11A
 M YUEN/WAISUMMISS 48C
 YUN/EISIKMR 37H
 ZARIF/MARGARET 27A

LIU/CMRS 34H
 LIU/PMISS 34K
 LOMBART/AIDENMR 08H
 LUI/JOHNMR 44A
 JANG/GS 20H
 JANG/ST 21H
 HONG/HYONGUNGMR 25C
 MAND/SAYORIMISS 43H
 MCNIFF/KEVINMR 24C
 M METCALF/CHRISTAMISS 55B
 MILLER/EDNA 28A
 MOLINE/JANMRS 16K
 NASSIEF/ANTHONYMR 43C
 OCAMPO/MCMISS 31F
 C OH/CHUNGCHOOMS 07A
 OKAI/YMRS 19F
 C OREN/WILLIAMMR 10A
 OSEDO/MIDORIMRS 33K
 PAKARANDDOM/SMR 42J
 PAN/LIMEIMS 39C
 PARK/AHEKYUNGMR 42D
 PARK/HANTAEMR 27K
 PARK/HONGSOONMRS 37A
 M PARK/SARAHMISS 41G
 PATEL/KMR 41C
 POWRIE/IANMR 26K
 NAKAO/N 43K
 F McDONALD/LAWRENCE 02B
 RHEE/SOOSHICKMR 23K
 ROBERT/FMR 45B
 M RYU/OKMYUNGMR 36D
 SCRUTON/RMRS 50H
 SHIIKI/LMS 29A
 SHIMIZU/MIYAKOMRS 46K
 SIRIPOON/JMRS 42C
 SOHN/KYUNEOKMRS 36H
 SON/YOUNGJAMRS 22K
 STECKLER/IMRS 37D
 STEVENS/HIROKOMS 35K
 RYU/CHOONTAEKMR 20A
 TAKEMOTO/KMR 32A
 TANAKA/KEIKOMISS 32C
 TOMITAKA/YAEKOMISS 30C
 WANG/YUNSHENGMR 41H
 WENG/MTMR 52C
 WUDUUN/SMS 33D
 YAMAGUCHI/MMR 29D
 YEH/CLMRS 20F
 YI/YMR 54B
 YOO/BYEONGSOOKMRS 23A
 YOON/SUNGBOO 51D
 YUEN/CHIBONGMR 40A
 YUH/TONGYEALMR 18H
 ZAREH/DMR 36C
 TRUPPIN/MICHAELDR 16J

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED
 DATE 10-5-17 BY SP8BJ/JSK

149-12981-19

ENCLOSURE

PASSENGER MANIFEST

KOREAN AIRLINES

HL 701 FROM NEW YORK USA TO SEUL KOREA KE007 230AUG

D/T SERVICE AIRLINES

C/I RETURN ME / INITIAL

F 001 - 001/000/000

C 012 - 010/002/000

Y 231 - 206/022/003

TTL 244 - 217/024/003

Handwritten notes:
LAST 100
100/000

GRAND TOTAL

F 001 - 001/000/000

C 012 - 010/002/000

Y 231 - 206/022/003

TTL 244 - 217/024/003

Handwritten note:
↳ - 4 anchorage

PASSENGER MANIFEST

KOREAN AIRLINES

HL-7442 KE007 30AUG
FROM NEW YORK USA TO SEOUL KOREA

C/I SURNAME/INITIAL

C/I SURNAME/INITIAL

	ARIYADEJ/DIANEMRS	38D	ARIYADEJ. SAMMY	17D
	AVECILLA/JMISS	49A	BAEK/YUNJMR	43A
	BAHK/MRIC	54D	BAYONA/AMS	31C
	BAYONA/LMS	43B	BE/BUNSOONMRS	28C
	BEARN/JMR	32J	BESSELL/ELEANOR	30D
C	BEVINS/RICHARDMR	10B	BOLANTE/EMR	19H
	BOLANTE/NMS	30E	BROWNSPIER/KMS	49H
	BURGESS/JAMES	25A	CAMPBELL/SMISS	27F
	CARRASCO/CMR	27E	CARRASCO/MEMISS	36A
	CASER/CMR	50C	M CHAI/SOOMYUNGMR	49K
	CHAMBERS/JOYCE	27G	CHAN/AMADOMR	29F
	CHAN/JOSEPHMR	45K	CHAN/SJMR	51A
	CHANG/MASONMR	31K	CHANG/TSAICHENMR	55G
	CHANLIN/YSMRS	29G	CHEN/FULONGMR	55H
	CHEN/JUYENMS	41J	CHEN/SHIAOFENMISS	55J
	CHENG/CCMR	55K	M CHENLEE/JENRONGMRS	42A
	CHO/JAEMOOK	16C	CHOI/NYUMSOONMRS	47J
	CHOUAPOCO/CMR	47H	CHOUAPOCO/CMISS	26G
	CHOUAPOCO/MMRS	47K	CHUNG/HWASUNMRS	50A
	CHUNG/OKSOONMRS	35H	COVEY/MERRYLOUMS	40A
	CRUZ/AMR	40B	CRUZ/EMISS	40H
	CRUZ/EMR	40G	CRUZ/FMRS	51H
	CULP/MARIE	53C	DANG/LQCMR	45A
	DAWSON/LUCILLE	26A	DEMASSY/FMR	31A
	DORMAN/SMR	17C	DRAUGHN/SMISS	28H
	ELLGEN/RMR	17G	EPHRAIMSONABT/AMISS	26J
	FITZPATRICK/LILLIAN	26C	FORMAN/EMRS	53H
	GALANG/BMS	38K	GREGOIRE/JOHNPAULMR	08A
C	GRENFELL/MJMR	07B	C GRENFELL/MRS	07J
CM	GRENFELL/NMISS	07H	CM GRENFELL/SMISS	
	GUEVARA/AMRS	46A	GUEVARA. T	
	HA/MYOSOOONMRS	22A	HABA/HIROKIMR	57H
	HAN/JUNGMINMISS	36E	HAN/MANCHULMSTR	36F
	HAN/SUNSUOKMR	52B	M HAN/UNGJUNMR	36G
	HANSUWANPISIT/AMS	35A	HENDRIE/MMISS	18C
	HJALMARSSON/JMR	18G	HO/MINGTAIMR	35B
	HO/YUKYEEMISS	41A	M HODLAOR/TMSTR	32D
	HWANG/BYUNGSOOKMRS	17J	INOUE/AMSTRCH	32F
M	INOUE/KMRS	32E	M INOUE/MMISS	32H
	ISHIHARA/MASUYOMRS	41K	IU/WAIKONGMR	17K
	JAMES/HAZEL	53A	JANG/SANGJUNMR	36K
	JUNG/H	25H	M KANG/YONGCHAEMSTR	48H
	KATZ/JACKMR	21C	KAWANA/HMR	19C
	KIM/BEUMCHENMR	52A	KIM/CYMR	54H
	KIM/GANNANMRS	25D	KIM/JINHMR	51J
	KIM/LEESIKMR	56A	KIM/RAESDOMR	38H
	KIM/SOONTAEK	17A	KIM/WONBOKMRS	24K
	KIM/WOOSHIKMR	23B	KIM/YUNGSIKMR	54A
	KITAO/HITOMIMS	37K	KO/YMR	30B
	KOBAYASHI/IKUKOMISS	30A	KOBAYASHI/SHOICHIMR	33C
	KOHN/ALLAN	33A	KOHN/LILIAN	56H
	KOLE/MURIEL	28K	KONG/KING	77C
	KOLE/MURIEL	28K		

PASSENGER MANIFEST

KOREAN AIRLINES

HL-7442

KE007 30AUG

FROM NEW YORK USA TO ANCHORAGE USA

*got off
at ANCHORAGE
ALASKA*

C/I SURNAME/INITIAL

C/I SURNAME/INITIAL

SEARS/ROBERT
SEARS/KMRS

53E SEARS. MICHAEL
53F M SEARS/JAMIE

53G

F 000 -000/000/000
C 000 -000/000/000
Y 004 -002/001/001
TTL 004 -002/001/001

Special information

PHI ME 007 30 AUG 1557 JFK
 FUG F 0 C 13 Y246
 FUG 0 0 0
 FEL 0 13 246
 FITH 14 24 372

INBOUND CONN
 AA 335 3 **YYE (4)**
 UA 506 1 **ORD**
 AA 188 3 **PIT**
 UA 304 1 **DTW**
 AA 007 1 **BOS**
 AA 042 1 **YYE**
 AA 506 1 **DCA**
 AA 100 1 **ATL**
 AA 017 1 **ATL**

OUTBOUND CONN
 FE 724 3
 FE 724 4
 FE 817 1
 FE 704 20
 FE 817 25
 FE 817 27
 FE 804 1

SEL
 SEL
 SEL
 SEL
 SEL
 SEL
 SEL

UTHER BOLLINGM 3Y RNX4K2
 USFIPPO FILP3 ORT/TPE/FINAL
 OSIE THPEO
 OSIE IJHO

149-12981-19

ENCLOSURE

180NGZJ RATJNB
OSIAR YE121/1SEP SEL/PI UNA TO BUK DIF SHUTTLE SV L IDE OPN
OSIKE RETURNING SEAMEN
1AVECILLA/JMI 1Y 178F
OSIKE YHAPBO
1CARRASCO/CMR 2Y RC7K6F
OSIKE YHAPBO
OSIKE CHD OF MUNDER/LMRS TRVLING UNDER FATHERS NAME. CARRASCO
OSIKE NND NSST
1BRAEK/YUNJMR 1Y RHLIYJ
OSIKE HLDING TCK
OSIKE VIP CARD (NBR KK2809) ✓ EXEC CLS VIP
OSIKE INL EXECUTIVE CLS

1CRUE/FMR 2Y RLY3V2
OSIKE YHAPBO
1CRUE/EMISS 1Y RLANGB
OSIKE YLEFM
1BEIRN/JMR 2Y RNGX42
OSIKE YLELY FARE
1CHUNG/OKSOON 1Y RABB7S
OSIKE DUNG A TRVL
OSIKE YLELY
OSIKE CTOT NYC212 695 1101 A
1ERRINER/TK 1Y RENU4S
OSIKE CTOT NYC212 594 5860 A SEAGATE TVL
OSIKE CTOR NYC 212 391 5500 B
SEPNSTHEPNJ AISLE PLZ/THX MUCH
1CHOUNG/OK/CM 1Y RKCJSJ
OSIKE YLELY
1CHOUNG/OK/MM 2Y RENV0F
OSIKE CHD 5YRS
OSIKE YLELY
OSIKE TOPS RKCJSJ
1COPAN/STANL (1C) RF5RS2
THE VIP CARD NBR KK3270 EXP 31 DEC/83 ✓ VIP
SEPNSTHEPNJ ISLE

1EAYON/LMS 2Y RN7GB2
OSIKE YLELY
1CHUNG/HAISON 3Y RI3YT6
OSIKE YLE FARE
OSIKE NY CHD 5YRS N 3YRS
1CHEN/JUVENMS 1Y RR5372
OSIKE YHAPBO
1CHANG/TERICH 1Y RER336
OSIKE YHAPBO FARE
1ELLSEN/FMR 1Y RNKQ5B
OSIKE YHAPBO FARE
1BRE/JONGGOAN 4Y RGAITB ✓ INF (Kyung Min)
OSIKE CHD JINF
1CASEN/CMR 1Y RE6ZH2

OSIKE YLELY/
1BESSELL/ELEA 13Y RL22FJ
SEPOHSHETORL3 INCT/HKG/TUE/SRS
OSIKE USA KYOTO HOLIDAY INN HTL
OSIKE THE MIRAMAR HTL
OSIKE HGG LEE GARDEN HTL
1FORMAN/EMRS 1Y RNX5DF
OSIKE ONLY/EM
1CHAI SOOMYUN 1Y RQ4UEF
SEPOHSHENNI ADAR TO MR CHAI/SEUNGSUK IN TYO 32341B9
OSIKE PAN 12YRS OLD BOY
OSIKE PAN/ADAR TYO-323-41B9 MRS. CHAI X TYORRKE/29AUG
1CHD/THENDOK 1Y RBHUEJ
OSIKE CTOT NYC212 986 4940 A ✓ EXEC CLS
OSIKE INL EXECUTIVE CLS
1CAMPBELL/SMT 1Y RNW3RB

SSRGRPSKETOP1 CL 1077 FINAL
OSIYE YHAPED
1APRYADEJ/DIA 1Y R 3CS
OSIYE 1 INF 3 MONTHS OLD
OSIYE WAS FARE OPN RET *INE (DMSTR)*

100-MAN/EMR 1Y RSLQVN
OSIYE VIP CARD HLDR
1BOLANTE/EMR 1Y RAACEF
OSIYE YHELY FARE
1BOLANTE/MMS 1Y RMPJS6
OSIYE YHELY FARE
1CHAN/AMADOMR 1Y RFECWJ
OSIYE YHELY FARE OPN RET
OSIYE OPH TO KARL
11-ORNBBERGER/S 1Y RSNTYB
OSIYE YD2/OW
100VEY/MEPRYL 1Y RQ474B

UGML

SEPVGIL/EPNI
1EPHRAINSONAB 1Y RASB42
OSIYE YHELY
1CHAN/SJMR 2Y RDQHKJ
OSIYE YHAPED
1GALANG/EMS 1Y RQFXV2
OSIYE YLELY RET OPEN
1GREENFELL/MJN (40) RUF3TS
OSIYE 716-148-8995-A VAN ALPHEN ✓
OSIYE UTHS MISS N IS 5YRS-MISS S IS 3YRS
OSIYE NM POW NBR7

1GREGGIRE/JOH 1Y RTD3EB
OSIYE RET/SEG
1HTALMARFSON/ 1Y RBJU22
OSIYE PAK HLDG TKT
1ISHIHARA/MAS 1Y RJJHC6
OSIYE NNL NOSMKING WINDOW
OSIYE PAK PTN
1HAM/YONGHOON 2Y RFWRYB
OSIYE RTN SEG
OSIYE WINDOW SEAT
1HA/MYOSUONMR 1Y RICXL2
OSIYE YD2
1GUEVARA/MRS 1Y RCHJQ6
OSIYE YLELY

INE

OSIYE 1 INF/GUEVARA/T
1JAO/MINGTAIMR 1Y R13DTB
OSIYE YD2 FARE
1JAO/KIYOUNGMR 1Y RDXFX6
OSIYE DG/SC25
1JULIARONGMR 1Y RCHLRF
OSIYE YHAPED
1INDUE/MRS 3Y RBHRL6
OSIYE CH 3YRS
SSPNSSTYEPNI WINDOW SIDE
1HAN/LUNGJUNMR 4Y RTCH2S
OSIYE 2CHD
OSIYE EM SVC/GTR PAK/PUSAN UNIV/PREF
OSIYE 2CHD/4YRS/3YRS

EXEC SUC GTR

1HENDE/EMMIS 1Y RCLASN
OSIYE PAK OTC 416 920 2426
OSIYE HEP-ALD TRAVEL 416 366 1188
1HOMLAP/TMST 2Y RSYDJJ
OSIYE 1 YRS OLD
OSIYE WAS FARE
1LANG/SANGJUN 2Y RT227N
OSIYE YHE120 RET SEG
1LUBHAYASHI/IK 1Y REQMUW
OSIYA APP BY KE008Y29JUL SEL

OSIKE WL PUR IKT 1Y RN6YX2
1KUNG/CFMR 1Y RYXJ
OSIKE CTCT LAX213 617 000 A
1KIM/OCYMR 1Y RREPLS
OSIKE RET/SEG
1KIM/JINMR 1Y RFFCIB
OSIKE TRAVEL WITH LILLIAN INC
OSIKE YLE1Y
OSIKE CTCT NYC212 947 2488 A
1KIM/SUNGHEE 1Y RLZK8B
OSIKE YDC
1KIM/HYDTEMPS 1Y RIDG7N
OSIKE YLE1Y
1KANG/YONGCHA 1Y RA2TTF
OSIKE UM/8YRS/M/KOREAN
OSIKE G-DIAN ADDR/ 3518 ELM ST. ALLENTOWN PA. 18104
OSIKE SEL G-DIAN CTCF POHANG 1562-2-5179 TO CHUNG/SOOMIN
1KIM/SKEK1 G-DIAN CTCF 215 820-5886 ATTN KANG/DUYOUNG/FTHR

UM ✓

1KIM/HITOMI 1Y RA38XW
OSIYY APR YE12Y13AUG SELLAX
OSIUA YV USA

1KIM/ANNBOKMR 1Y RFIJIN
OSIKE YDC ARIRANG TRAVEL
OSIKE CTCT NYC212 221 7189 ARIRANG LEENA
OSIKE CTCH NYC516 746 4084 HOME
1KIM/SOONTRAK 1Y RGXSJN

QTR PAX ✓

OSIKE ATF PAX X EK SVC X SMST X JUNG ANG GYO YUG YEONSU WON BU JANG EXEC SVC

1KIM/ANNBOKMR 1Y RLEHBF
OSIKE YDC FARE
1KIM/ANNBOKMR 2Y RURSCF
OSIKE RET SEG

1KIM/ANNBOKMR 2Y RTCINS
OSIKE SEPAN M/V DELFINI V.
OSIKE FINAL DESTINATION IS PUS
1KIM/YOUNKEU 1Y RGMU6B

OSIKE YDC FARE
1KIM/ANNBOKMR 1Y RLCPFJ
OSIKE YDC FARE
1KIM/ANNBOKMR 1Y RE7ZV2

OSIKE YLE1Y
OSIKE NMI NON SMOK AISLE ST
OSIKE NMI KA 011
OSIKE NMI EXEC SVC

EXEC SVC

1KIM/ANNBOKMR 2Y RSUXGN
OSIKE YLE1Y FARE OPN RET
1KIM/ANNBOKMR 1Y RN7TQW
OSIKE RET SEG

1KIM/ANNBOKMR 2Y RBJETN
OSIKE PTH SEG
1KIM/ANNBOKMR 4Y RATZV2
OSIKE JCHY/8YRS

OSIKE YDC
1KIM/ANNBOKMR 3Y RC2CT6
OSIKE WHABO
1KIM/ANNBOKMR 1Y RIS3C2

OSIKE WHABO
1KIM/ANNBOKMR 1Y RTKYV2
OSIKE YLE1Y ARIRANG TRAVEL
1KIM/ANNBOKMR 2Y RIFQYJ

OSIKE NMI WHLCHAIR DUE OLD AGE/80

WACH

1KIM/ANNBOKMR 1Y RALJCN
OSIKE WHABO FARE
1KIM/ANNBOKMR 1Y RPWSZJ
OSIKE YLE1Y FARE
1KIM/ANNBOKMR 3Y RC7ZA6

OSIKE YH FA FOR METOS/CMRS
OSIKE TKT WL BE REISSUED AT APO
SSFOHSAL PLS M/A/TOL E AT JFK NO ENG

1MNA/JMR 1Y RICZBW
OSIKE YHAPBO
JLEE/INHOMR 1Y RICZV6
OSIKE DONG A TRVL
OSIKE YHELY
OSIKE CTOT NYC212 695 1101 A
OSIKE CTCH NYC201 432 3181 H
JLIM/JONGTIND 1Y RLY58J

OSIKE COLUMBIA UNIVERSITY PROFSR
OSIKE YHELY
JLIM/JONGCHUL 1Y RBQ73J
OSIKE EWHA TRAVEL SERVICE ANNE
OSIKE YHELY

OSIKE CTOT NYC212 244 3345 A
OSIKE CTCH NYC212 352 9201 H
1MONIFF/KEVIN 1Y RQNEWW
SBRGRPSKEICPS SFO/JFK/TPE/SRS
1MANO/SAYORIM 1Y RNKH82

OSIKE YHELY
JLEE/MYUNGHWA 1Y RGMRXB
OSIKE RTN SEG
JLEE/EUNHEEMI 1Y RIUJ8B
OSIKE YHELY/OPN RETN
JLANTIN/PAYMU 1Y RBB55J
OSIKE YHELY
JLADHATHAI/SU 1Y RDA25N

OSIKE YG2
JMOGETRICH/MA 1C RJVDH6
OSIKE TOPS OREN/WILLIAMR
SSRNSSTKEPN1 WINDOW ISLE AND ISLE FOR MR M MR B AND MR O

1PATEL/KMR 1Y RDNL7N
OSIKE YHELY
SSRNSSTKEPN1

UGNL

1OSEDD/MIDORI 1Y RHFBS
OSIKE RET SEG
1SHIU/YOMR 1Y RTEP5N
SBRGRPEKETCP1 ORT/TPE/ADD
OSIKE YHAPBO

1OLDHAM/JOHNM 1Y RMJCGS
OSIKE YHELY RET OPEN
OSIKE ORIENTAL TRL 349-4090 WL BE ISSUED TKT
SSRNSSTKEPN1 ISLE SEAT
1SOHN/KWINEOK 1Y RBKG8W

OSIKE RTN SEG
1SCRUTON/CMRS 1Y RUE2GB
OSIKE YHEEM
1POWELL/IANMR 1Y RARBTB
OSIKE YHELY

OSIKE FRI HLDG TKT FOR KE7/28AUG X PLZ COLLECT USD50 FOR PENALTY 1PARK/MIN
4Y RDM73S

OSIKE WY 2CHD 4YRS N 2 1/2 YRS
OSIKE YHELY
1SON/SOJAMRS 2Y REF3K2
OSIKE RET SEG
1SE0/JOOKMRS 2Y RBQ8E2
OSIYY 1CHD 4YRS
1OCCAMP/SEMRS 4Y RF56MF
OSIKE YHELY
OSIKE 2CHD 4/3YRS
1SHIIKI/SMRS 2Y RJL6AN
OSIKE YG2 FARE
1OHN/CHUNGCHOO 1C RHQA2S

1STECKLER/IMR 1Y RP2CZN
 SSPGPPSKETOP2 LKB/NYC/1
 SSPVTHSKE/NN2/VGML
 OS/IE TOP2/STECKLER/IMRS ✓
 OS/IE 1TOP1 STECKLER/IMRS ✓
 OS/IE NMI KE NS/FRONT SECTION ② VGNL
 1STRIFOON/MR 1Y RGACN
 SSPGPPSKETOP1 NYC/BKK/FINAL
 OS/IE YHAPB
 1STECKLER/IMR 1Y RP2CZN
 OS/IE TOP2 STECKLER/MR
 SSPVGMKKEPN1
 OS/IE NE. WINDOW FRONT SECTION ✓
 OS/IE 1TOP1 STECKLER/S ✓ VGNL
 1OKAJ/MR 2Y ROKAJW
 OS/IE YR2 FARE
 OS/IE PGR N. SEND TWO CATS AS BAGGAGE
 1PAPK/ANTREM 1Y REGZD6
 OS/IE YHE6N RET OPEN
 1FYU/NGYUNGGEU 1Y RDWRUB
 OS/IE YHELY ARIKANG TRAVEL
 OS/IE CTC1 NYC212 221 7189 ARIKANG LEENA
 OS/IE CTC1 NYC301 441 8694 HOME
 1FAN/LIMFINS 1Y RT42R2
 OS/IE RET SEG
 1PUFFIN/MICHE 2Y RU4RJF
 OS/IE KST
 1OTAI/KURIYU 1Y RNV8GN
 OS/IE ARR FEB/20AUG SEL
 1SUNG/DOONKWA 1Y RJJWLB
 OS/IE F12 P/U STPC HTL VCHR AT SELKI
 OS/IE STPC NOT APPLCABLE TO SPCL FARE TKT HLDR W/O AUTH
 1SHIN/CHAMIYA 1Y RRVXDB
 OS/IE ARR FEB08Y20AUG SEL
 1PRA/PANUDOMY 3Y RCG4MF
 OS/IE YHAPB
 OS/IE 1 CHD
 1YUK/INMF 1Y RGM88F
 OS/IE YHELY FARE OPN RET
 1YSH/2 2Y REG4DF
 OS/IE POC2D5
 1TSAB/CHENMR 1Y RATHVS
 OS/IE TRAVEL WITH LILLIAN INC
 OS/IE YHELY
 OS/IE CTC1 NYC212 947 2488 A
 OS/IE CTC1 NYC212 619 3833 B
 1YHEN/HAISUMM 2Y RGLDNF
 OS/IE 1CHD 7YRS
 1YLEN/ACHIBONG 1Y RJL5B6
 OS/IE 1CHD 7YRS
 1YVANG/CHH/MM 1Y R13DZ2
 OS/IE YOC FARE
 1YIEN/CHHRS 1Y RMOXGB
 OS/IE YHAPB
 1YUJ/TONGYEAL 1Y RKJBBF ✓ EXEC CLS
 OS/IE IN ENCL
 1YEE/THAN/ILMR 1Y RMOKTW
 OS/IE FNT SEG
 1YUN/BEISIKMR 1Y RFFQJN
 OS/IE YHELY
 1YANG/YUNSHEN 1Y REPCK2
 OS/IE YHELY FARE OPN RET
 1YOMITACH/YAE 1Y RPNHYJ
 OS/IE ARR FEBY24JUN SEL
 1YUDDUN/2HS 1Y RKVE22
 OS/IE YHELY FARE OPN RET
 1YANAKA/HEIKO 1Y RQD7GN
 OS/IE ARR FEB08Y5AUG SEL
 1YAKEMOTO/KMR 2Y RGVCKS
 OS/IE ARR FEB08Y5AUG SEL
 1YOO/CHUNGSOO 1Y RL3STB
 OS/IE NMI EXC SVC/GTR PAX EXEC SUC GTR ✓

DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
COMMUNICATION MESSAGE FORM

PAGE 1 OF 4
DATE: SEPTEMBER 13, 1983
CLASSIFICATION: SECRET/WNINTEL
PRECEDENCE: IMMEDIATE

0500 Y1 Y6 Y7 Y11Y23 H0094 25621308Y480 132035Z SEP 83

START HERE

DIRECTOR FBI
TO Y1/WHITE HOUSE SITUATION ROOM
Y6/DIRECTOR CIA

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
EXCEPT WHERE SHOWN
OTHERWISE

FEDERAL GOVERNMENT

[REDACTED]

(S) b1

Classified by SP14/fat
Declassify on: OADR

Y11/SECRETARY OF STATE

ATTN: BUREAU OF INTELLIGENCE AND RESEARCH

BT

SECRET/WNINTEL

[REDACTED]

(S) b1

THIS COMMUNICATION IS CLASSIFIED "SECRET" IN ITS ENTIRETY

[REDACTED]

(S) b1

SUBJECT: NON-ALIGNED NATIONS' VIEW OF SOUTH KOREAN AIRLINE
INCIDENT

REPORT NUMBER: 38-YU-150-4-83 V-88 DE-126

DATE OF INFORMATION: SEPTEMBER 9, 1983

SOURCE: A CONFIDENTIAL AND SENSITIVE SOURCE WHO HAS

Flight 001

149-127.1-19X

12 SEP 27 1983

9/13/83 4084/5 46467232

1 - [REDACTED] b7c
1 - [REDACTED]
1 - [REDACTED]

SEE NOTE PAGE FIVE

17 DEC '81 1983

213 am
ENCLOSURE

SECRET

[REDACTED] b7c
[REDACTED]

01

DO NOT TYPE PAST THIS LINE

~~SECRET~~

2

PAGE TWO 423 0094 S E C R E T UNINTEL
FURNISHED RELIABLE INFORMATION IN THE PAST AND IS IN A POSITION
TO OBTAIN THIS INFORMATION. FBI HEADQUARTERS ACKNOWLEDGES
THAT THIS INFORMATION IS INCOMPLETE, HOWEVER, IT IS BEING
PROVIDED FOR YOUR INFORMATION. ADDITIONAL DETAILS ARE NOT
AVAILABLE AT THIS TIME.

[REDACTED]

[REDACTED]

A11
b1

~~SECRET~~

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149-12981-19X pgs 3, 4, 5

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FBI

TRANSMIT VIA:

- Teletype
- Facsimile
- Airtel

PRECEDENCE:

- Immediate
- Priority
- Routine

CLASSIFICATION:

- TOP SECRET
- SECRET
- CONFIDENTIAL
- UNCLAS E F T O
- UNCLAS

Date 9/21/83

TO: DIRECTOR, FBI

FROM: SAC, LOS ANGELES [REDACTED] (S) (P) b1

RE: KOREAN AIRLINES FLIGHT #007
INFORMATION CONCERNING
[REDACTED] (S) b1

DE-57

This communication is classified SECRET in its entirety.

Enclosed for FBIHQ are three copies of a letter received by Los Angeles concerning the alleged shooting down of Korean Airlines Flight #007 by the Union of Soviet Socialist Republics.

DE-57 149-12981-19X1

[REDACTED]

- 3 - Bureau (Enc. 3)
- 2 - Los Angeles

CLASSIFY BY: G-3
DECLASSIFY ON: OADR

68 FEB 6 1984

Approved: _____ Transmitted _____ (Number) (Time)

DEC 16 1982

~~SECRET~~

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10-5-87
Classified by SP6 JJK/lat
Declassify on: OADR

b1 (S)

b1

(S) b1

b1

b7c

b7c

b7c

LA [redacted] (s) b1

[redacted] in his cover letter, has requested his identity be protected. However, if this information is verified, [redacted] requests that he be given credit for providing this information and cooperating in the investigation.

[redacted] self-described as [redacted]
[redacted]
[redacted] Los Angeles indices negative for [redacted]

This information submitted to FBIHQ for such action as deemed appropriate.

b7c
b7D

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FBI

TRANSMIT VIA:

- Teletype
- Facsimile
- AIRTEL

PRECEDENCE:

- Immediate
- Priority
- Routine

CLASSIFICATION:

- TOP SECRET
- SECRET
- CONFIDENTIAL
- UNCLAS E F T O
- UNCLAS

Date NOV 7 1983

To: Director, FBI

From: SAC, BROOKLYN-QUEENS

Subject: UNSUBS;
Possible Threat to Hijack
Korean Airlines Flight 007
(JFKIA, NY - Seoul, Korea)
9/29/83

ATTENTION:

- CRIMINAL INVESTIGATIVE DIVISION
- CIVIL RIGHTS SECTION
 - DOMESTIC SECURITY AND TERRORISM SECTION
 - PERSONAL AND PROPERTY CRIMES SECTION

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED
 DATE 10-7-87 BY SP8 HJF/pal

- CR EL DIH CRA-64
- DAMV PA PE PF E
- CAA AP IWFC CWAA FI
- EID Bomb Threats

Summary of Complaint:

149-12981-20

INDICES: Negative See Summary

17 NOV 22 1983

ACTION: UACB:

- 2-Bureau (Encls.5) No further action being taken and LHM
- 1-BQ (164-1500) (Encl.1) LHM enclosed Copy to: USA EDNY, ATTN: AUSA SHEPERD
- 1-JFKRA (INFO) (Encls.1) FD-376 (Enc. to LHM) Secret Service NYC
- 1-164B- LHM being submitted ATF
- Report being submitted FAA Eastern Region
- Preliminary investigation instituted (1) FAA-ATSFO
- Limited investigation instituted
- Investigation continuing

*1cc encl
 Person USSS
 11/22/83*

812

Approved: [Signature] Transmitted _____ Per _____

(Number) (Time)

UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

Queens, New York
November 2, 1983

UNSUBS;
Possible Threat to Hijack
Korean Airlines FL7 007
(JFKIA, NY - Seoul, Korea);
September 29, 1983

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

United States Secret Service (USSS) Intelligence
Section, [REDACTED] furnished the following
background information regarding [REDACTED]

[REDACTED]

This document contains neither recommendations nor
conclusions of the FBI. It is the property of the FBI
and is loaned to your agency; it and its contents are
not to be distributed outside your agency.

100-10101-20

ENCLOSURE

ALL INFORMATION CONTAINED
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DATE 11-7-87 BY SP8UJ/bk

b7c
b7d

b7c

(164-NEW.)

b7c

[REDACTED]

b7D

[REDACTED]

On September 29, 1983, coverage of Korean Flight 007 was instituted by the Federal Bureau of Investigation (FBI), FAFD Detectives and the FIA. Assistant United States Attorney (AUSA) Susan Shepard, Eastern District of New York (EDNY), was apprised of the above-mentioned information and requested FBI preliminary investigation in this matter.

A scheduled passenger, [REDACTED] Flight 007, Korean Airlines was interviewed by the FBI prior to her leaving board Flight 007. [REDACTED] advised that she was in the United States in order to attend [REDACTED]

[REDACTED] She stated that she arrived in New York City, New York in May of 1983 and resided at [REDACTED] New York. She also provided the following background information:

Name: [REDACTED]
Sex: Female
Race: Oriental
DOB: [REDACTED]
POB: [REDACTED]
Address: [REDACTED]

Mother: [REDACTED]
Brother: [REDACTED]

b7c

BEST COPY AVAILABLE

(164-NEW)

Non Immigrant

Visa Number: [REDACTED]

Issued at [REDACTED]

Passport: [REDACTED]

Friend: [REDACTED]

Telephone: [REDACTED]

ID Number: [REDACTED]

Expires: [REDACTED]

[REDACTED] further advised that she does not know anyone by the name of [REDACTED]

A surveillance by the FBI was conducted at Korean Airlines (American Airlines Terminal, JFKIA) on September 29, 1983, whereby the following was determined:

An individual later identified as [REDACTED] checked in on Korean Flight 007 accompanied by:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

AH
b7c

(164-NEW)

[REDACTED]

Prior to departure of Korean Airlines Flight 007, September 29, 1982, [REDACTED] transferred an airline ticket in his name issued November 28, 1982, for travel from New York to Seoul to Tokyo, which is non-transferable, to [REDACTED]

Interview of [REDACTED] prior to departure of Korean Airlines Flight 007 determined he was returning to Tokyo to visit his grandfather who was sick in a hospital and that he was utilizing [REDACTED] airline ticket which because it was non-transferable was immediately confiscated by Korean Airlines official, and ultimately returned to [REDACTED] after the flight had departed from New York. It was determined that the Korean Airlines ticket issued on November 28, 1982, to [REDACTED] will expire one year from date of issue.

All
b7c

No unusual incidents occurred after Korean Airlines Flight 007 departed JFKIA-NY on September 29, 1982, at 2354 hours (11:54 p.m.)

The following notifications were made:

U.S.S.S. - [REDACTED]

17A - Duty officer [REDACTED] Special Agent [REDACTED]
[REDACTED] (Civil Aviation Security, JFKIA).

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TRANSLATION FROM SPANISH

OUTSIDE SOURCE

The anonymous, undated communication is addressed to:
FEDERAL BUREAU OF INVESTIGATION (F.B.I.)
WASHINGTON, D.C. U.S.A.

It bears a postmark affixed in North Jersey, NEW JERSEY, on November 3, 1983.

* * * * *

To end speculation on (the destruction of) KOREAN AIR LINES Flight 007, (an act which was) committed by communism, the disgrace of the twentieth century, the following should be known:

First: It all took place because Democratic Congressman McDonald was the target of the whole problem, because he was the only one who fought communism. Thus it was necessary to shoot him as it so happened.

Second: The F.B.I. should interrogate the ten Democratic representatives who went to Russia and who met with high-level officials of that country. They surely talked about McDonald's anti-communist feelings and the fact that an intensified campaign will be launched in the United States in the upcoming 1984 elections to get Mr. Reagan out of office.

Third: That these ten individuals be questioned, since there is a 90% chance that one of them might be a Russian government spy, they should take the lie detector test.

Fourth: In the offices of Korean Air Lines there is at least one employee who is a Russian spy, who informed his superiors of McDonald's presence in the airplane. Who invited him? Why did he travel?



All b7c



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

DATE 10-2-87 BY SP-2/2/87

TRANSLATED BY: [REDACTED]
DECEMBER 1, 1983

149-12981

23

JAN 18 1984

Note: (Please) Take the strictest security measures whenever Mr. Reagan travels by helicopter. The reason for this is that the Libyan government, by order of the USSR, might commit an air attack with a small airplane and might machine-gun the helicopter in which Mr. Reagan travels.

0 11 13 14 0

0

Para terminar con las especulaciones del avion de la Linea Sur Coreana 007 cometida por la desgracia del siglo veinte que es el Comunismo se conoceria de la siguiente manera:

Primero: Todo paso porque el Representante Demócrata McDonald era el blanco de todo el problema por ser el unico que combatia el Comunismo y era necesario fusilarlo como asi sucedio.

Segundo: Que el F.B.I. interrogue a los diez representantes Demócratas que fueron a Rusia y se entrevistaron con altos funcionarios de ese pais y seguramente se hablo del Anti-Comunismo de McDonald y de que se levantaria una intensa campana en los Estados Unidos para derrotar en las proximas elecciones 1984 al Sr. Reagan.

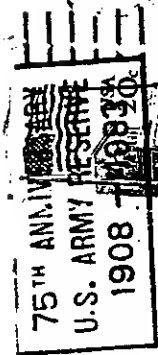
Tercero: Que dichos diez individuos sean sometidos a intorragatorios ya que hay un 90% que uno de ellos sea espia del gobierno Ruso y sean sometidos al detector de mentira.

Cuarto: En las oficinas de la Linea Sur Coreana hay por lo menos un empleado que es espia Ruso y este informo a sus superiores de la precencia de McDonald en el avion. Quien lo invito? Porque Viajo?

Nota: Tomen, las mas estrictas medidas de seguridad cuando el Sr. Reagan tome el helicpotoero ya que el gobierno Libio por ordenes de Rusia cometeria un ataque aereo con un pequeno avion y ametralle el helicpotoero donde viaja el Sr. Reagan.

0 11 13 14 0
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ALL INFORMATION CONTAINED
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DATE 10-7-87 BY SP8/BJ/TSB



Federal Bureau of Investigation (F.B.I.)
Washington, D.C., U.S.A.

ALL INFORMATION CONTAINED
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DATE 10-7-82 BY SP8 *[signature]*

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Memorandum

SECRET



- Exec AD Adm. _____
- Exec AD Inv. _____
- Exec AD LES _____
- Asst. Dir.:
- Adm. Servs. _____
- Crim. Inv. _____
- Ident. _____
- Insp. _____
- Intell. _____
- Lab. _____
- Legal Coun. _____
- Off. Cong. & Public Affs. _____
- Rec. Mgnt. _____
- Tech. Servs. _____
- Training _____
- Telephone Rm. _____
- Director's Sec'y _____

To : Mr. Bayse *was* ~~SECRET~~ Date 11/16/84

From : R. W. Witzel *Witzel*

Subject : INFORMATION CONCERNING CRASH OF KOREAN AIRLINES FLIGHT 007

DECLASSIFIED BY *SP8 wjg/fab*
ON *10-7-87*

This communication is classified "Secret" in its entirety.

PURPOSE: To place on record data concerning the crash of Korean Airlines flight 007.

DETAILS: [Redacted] requested confidentiality pertaining to this information. SA [Redacted] agreed to this condition.

On 11/13/84, [Redacted] telephonically contacted SA [Redacted] as follows:

[Redacted]

[Redacted] requested that this data not be released.

RECOMMENDATIONS: 1. For the information of the Intelligence Division.

2. That the FBI consider advising the other involved government agencies.

- 2 - Mr. O'Malley
- 1 - Liaison Unit
- 1 - Mr. Revell
- 1 - Mr. Bayse
- 1 - Mr. Witzel
- 1 - [Redacted]

wook
Classified by 8
Declassify on OADR

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 Declassify on: OADR

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**REPORT
of the
FBI
TECHNICAL SERVICES DIVISION
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535**

1 - [REDACTED]
Rm 5040
1 - [REDACTED]
2 - [REDACTED]
1 - [REDACTED]

b7c

To: Acting Assistant Attorney General
Civil Division
Department of Justice
Washington, D. C. **FEDERAL GOVERNMENT** October 21, 1985

Attention: Ms. Jan Von Flatern **FBI FILE NO. 149-12981**
Trial Attorney **LAB. NO. 50826030 E QZ**
Torts Branch **YOUR NO. MDL Docket 565**
Re: **KOREAN AIR LINES DISASTER**
SEPTEMBER 1, 1983 **Misc 83-0345**
ALLEGED MISCONDUCT OF AIR TRAFFIC CONTROLLERS

Examination requested by: Addressee
Reference: Letter dated August 22, 1985
Examination requested: Enhancement - Miscellaneous - Signal Analysis
Specimens received: August 26, 1985, personally delivered by Robert L. Hale.

Q1 One Scotch 10 1/2-inch reel of 1-inch wide magnetic tape marked in part "8/31/83" on a white label.

ALSO SUBMITTED:
One copy of a transcription.

Result of examination:
Six enhanced copies were prepared of the designated portion of channel 4 on specimen Q1, onto separate magnetic tape cassettes. Only a slight improvement in voice intelligibility could be obtained on the enhanced copies due to the very low recording level.

MAILED 4
OCT 21 1985
FBI

149-12981-31

1 - Mr. Robert L. Hale
Federal Aviation Administration
800 Independence Avenue, S.W.
Washington, D.C. 20591

b7c
[REDACTED]
MAIL ROOM
ADD 2 1986

(Continued over)

117 JAN 23 1986

ALL INFORMATION CONTAINED
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DATE 10-27-87 BY SP8 [signature]

An aural examination of the designated portion of channel 4 on specimen Q1 revealed that no decision can be made as to the words spoken, due to the very low recording level.

An aural examination of the "Oriental language" information at 1434:17 on channel 4 of specimen Q1 revealed that it is simultaneous crosstalk from channel 3.

Special Agent [REDACTED] conducted the enhancement, miscellaneous, and signal analysis examinations. b7c

Specimen Q1 and one enhanced copy were personally delivered to Mr. Hale on August 26, 1985. One enhanced copy was personally delivered to Ms. Flatern on August 26, 1985. Four additional copies were personally delivered to Ms. Flatern on September 5, 1985. The transcription will be retained.

REPORT
of the
FBI
TECHNICAL SERVICES DIVISION
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, O. C. 20535

1
3
1
[Redacted]

b7c

To: Mr. Gary W. Allen
Acting Director
Torts Branch, Civil Division
Department of Justice
Washington, D. C.

FEDERAL GOVERNMENT

December 19, 1985

Attention: Ms. Jan Vcn Flatern

Re: KOREAN AIR LINES DISASTER
SEPTEMBER 1, 1983
ALLEGED MISCONDUCT OF AIR
TRAFFIC CONTROLLERS

FBI FILE NO. 149-12981
LAB. NO. 51017067 E QZ
YOUR NO. MDL Docket 565
Misc 83-0345

ALL INFORMATION CONTAINED
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DATE 11-2-82 BY SPK/HJ/...

Examination requested by: Addressee and Federal Aviation Administration
Reference: Letters received September 26, 1985 and
October 17, 1985
Examination requested: Signal Analysis
Specimens received: August 26, 1985, under Laboratory Number 50826030 E QZ

Q1 One Scotch 10 1/2-inch reel of 1-inch wide magnetic tape
marked in part "8/31/83" on a white label

ALSO SUBMITTED:

One copy of a transcription

- 1 - Mr. Robert L. Hale
Federal Aviation Administration
800 Independence Avenue, S.W.
Washington, D. C. 20591
- 1 - Mr. Jim Vaughan
Manager
Anchorage Air Route Traffic Control Center
Federal Aviation Administration
5400 Davis Highway
Anchorage, Alaska 99506

149-12981-32

Attention: Mr. B. W. Franklin
Page One

(Continued over)

DEC 23 1985
MAILED 16
FBI

[Redacted] (11) b7c
MAIL ROOM
APR 28 1986

Specimens received: October 17, 1985, from Federal Aviation Administration, Anchorage, Alaska

ALSO SUBMITTED:

1. One copy of "ZAN COMM LINEUP PROCEDURE"
2. Two copies of recorder system drawing

An aural and electronic examination of the designated recordings on Channels 3 and 4 on specimen Q1, a review of the Also Submitted items, and visual inspection and audio tests conducted at the specified controller position in the Anchorage Air Route Traffic Control Center revealed the following:

1. Ambient room sounds in the vicinity of the controller position were electronically picked up through the 106 loudspeaker and the earpieces (actually small loudspeakers) in the handsets and headsets, and then recorded on Channel 4 of the Magnasync logging recorder. These sounds were not recorded via the microphones in the handsets and headsets. This process occurs because the loudspeakers can function as poor quality microphones and there is no electronic isolation between the mixer amplifier supplying the recorder and the loudspeakers.

A loudspeaker normally acts as a transducer to change electrical signals into audible sounds, but it can also function inversely, as a microphone by changing sounds into electrical signals. However, since the loudspeaker is designed to produce, not pick-up sounds, when it acts as a microphone, there is increased distortion, noise, and loss of linearity.

2. Unobstructed, average amplitude speech two feet from the handset earpiece and the 106 loudspeaker, acting as microphones, was only partially understandable when recorded on the Magnasync recorder. Test recordings made through the handset earpiece had slightly better intelligibility than the recordings using the 106 loudspeaker. The earpiece on the headset was not sufficiently sensitive to produce an understandable recording.

3. No ambient room sounds were picked up through the Federal Aviation Administration (FAA)(radio) loudspeaker.

4. The "Oriental language" information at 1434:17 on Channel 4 of specimen Q1 revealed cross talk from Channel 3, produced by the Channel 3 information being broadcast over a loudspeaker and then being picked up by the handset earpiece and/or 106 loudspeaker.

Special Agent [REDACTED] conducted the signal analysis examination. b7c

Specimen Q1 was previously returned to Mr. Robert L. Hale. The Also Submitted items will be retained.

+RECORDED
10/30/85
kk

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE
Work Sheet

To: B. W. Franklin
Airway Facilities Accident Coordinator
U.S. Department of Transportation
Federal Aviation Administration
701 C Street, Box 14
Anchorage, Alaska 99513

FBI FILE NO. 147-1-32
LAB. NO. 51017067 E QZ
YOUR NO.

Re: KOREAN AIR LINES DISASTER

Examination by: [redacted] b7c

Examination requested by: Addressee
Reference: Letter dated with no date
Examination requested: Signal Analysis
Specimens received: 10/17/85

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10-7-82 BY SP8 hty/jat

ALSO SUBMITTED:

1. One copy of "ZAN COMM ^{LINEUP PROCEDURES} ~~Lineup Procedures~~"
2. Two copies of recording system drawings.

At Anchorage Air Route Traffic Control Center with
ET [redacted] 10/24 → 26/85.
b7c



Tom Vaughan
MANAGER, ANCHORAGE ARTCC

FEDERAL AVIATION ADMINISTRATION
5400 DAVIS HIGHWAY
ANCHORAGE, ALASKA 99506 1697
OFFICE: (907) 269-1136

WorksheetConclusions:

1. The earpieces on the headset and headset ~~with~~ and the 106 ^{loud} Speaker will pick-up room sounds ~~which~~ that are recorded on channel 4 of the appropriate Magnasync recorder. The sensitivity and quality is best on the headset, followed by the 106 Speaker and then the headset.
2. No background room sounds are pick-up by the FAA (radio) ^{headset}.
3. Normal ~~can~~ level room conversation ^{2'} from the headset earpiece and the 106 Loud Speaker are partially understandable. The earpiece on the headset is not sufficiently sensitive to pick-up the conversation.

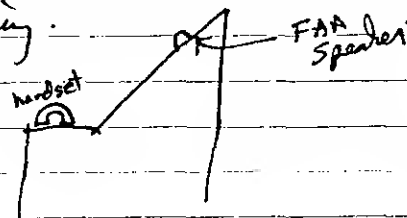
Worksheet

Audio Test:

1. Ran at FAA Center, Anchorage, AL at *position D-12 (watches D10/11 on transcription).
2. Nagra IV-S, 15ips, both channel, connected to phone jack output on Magnasync TR 1720 in basement, switchable between direct and reproduce (tape).
3. Sound source was a small ~~sp~~ loudspeaker fed a 1kHz tone, producing a ^{10%} ~~10%~~ Hz signal rich in other material.
4. Sound level determined with an IVEE IE-30 A Audio Analyzer.
5. Between midnight & 2AM average room noise averaged. 55-60 dBA SPL with no one talking near microphone.
6. Normal ^{to slight above normal} speaking voice at 2' ~ 70-75 dBA SPL.
7. Covered other possible inputs when tests run.
8. All controllers & supervisor advised that at time of questioned voice info. the controller would always be using a headset and not a headset due to the limited traffic.

Reel	Test #	Description
1	1	At 120 dBA SPL into headset earpiece - direct, reproduce, direct, and then reproduce.
1	2	Same as #1 except 106 Speaker
1	3	Same as #1 except FAA (radio) speaker
1	4	Same as #1 except headset earpiece.
1	5	Same as #4 except 80 dBA SPL
1	6	Same as #1 except "
1	7	Same as #2 except "
1	8	Normal conv. at 2 feet, headset, facing talker - direct, repro, direct, repro
1 (Partial) / 2 (Partial)	9	Same as #8 except headset facing down
2, 2	10	Same as #8 except headset facing away from talker
2	11	Normal conv. at 2 feet, 106 Speaker - Disregard
2	12	Normal conv. at 2 feet, 106 Speaker - direct, repro, direct, repro
2	13	Normal conv. at 2 feet, headset earpiece facing talker, direct, repro, dir, repro.

Output of FAA speaker, right in front of speaker, ~ 90 → 100 dBA SPL depending on output. About 70 to 80 dBA SPL on counter where headset would be lying.



WorksheetAudio Test Results:

- Test #1 - Very high-level - over-drives recording system
 Test #2 - High level ~ 40dB S/N in reproduce, muffled, limited freq. resp.
 Test #3 - Tone not heard
 Test #4 - High level ~ 35dB S/N in reproduce
 Test #5 - Slightly above averaged noise on direct, lost in noise on reproduce
 Test #6 - About 28dB above noise floor in reproduce mode
 Test #7 - About 7-8dB above noise " " "
 Test #8 - Only partially understandable on direct & reproduce even with filtering.
 Test #9 - Slightly better than Test #8, but still not completely understandable
 Test #10 - Same as #8
 Test #12 - Slightly poorer quality than test #8 - only a few words understandable
 Test #13 - Not understandable on repro.

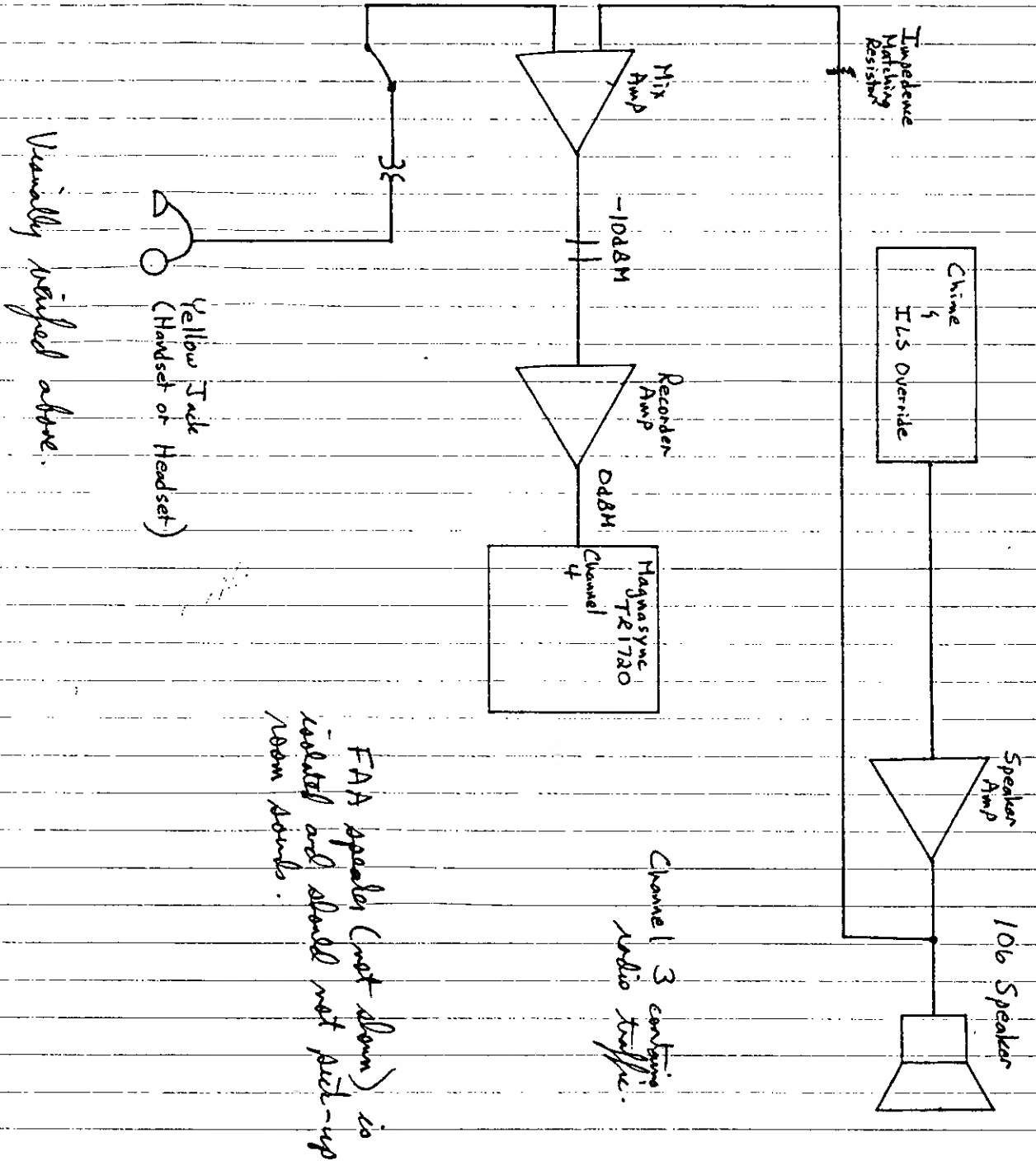
Vocorder

Inconclusive in comparing channel 3 to 4 for "Oriental language"

51017067 E QZ

Wiring Diagram

Show channel 4 inputs that may produce ^{pick-up} sound ^{even} when the microphones are not actuated.



WorksheetComments

1. Great wiring job - no wiring cross-talk possible at the limited dynamic range the recorder handles.
2. Controllers use yellow jacks for the recordings in question.
3. Background sounds picked up on 106 speaker not affected by volume control.
4. "Oriental language transmission had be picked up from a speaker broadcast material from channel 3.

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U.S. Controllers' Role Questioned in KAL Case

Lawyers Say Tape Suggests Tower Knew Jet Was Headed for Soviet Air Space

By Douglas B. Weaver
Washington Post Staff Writer

Attorneys representing families of those killed when a Soviet fighter shot down Korean Air Lines Flight 007 charged in court papers yesterday that someone in a U.S. air traffic control facility said "We should warn him" as the Boeing 747 jumbo jet began to stray off course.

The filing in U.S. District Court here came two days short of the second anniversary of the Sept. 1 disaster that claimed the lives of the 269 people aboard. The flight, bound from Anchorage to Seoul, was more than 340 miles off course and over Soviet waters when it was downed by Soviet fire.

Mark Dombroff, a private attorney working for the Justice Department, said that "no controller had any reason at any time to believe that anything was other than what

it was supposed to be. That is true no matter what the plaintiffs may fancifully assert was on that tape."

Raymond H. Yeager, an air-traffic consultant hired by the plaintiffs, said in an affidavit that he had listened to tape recordings from the Federal Aviation Administration's Air Route Traffic Control Center in Anchorage, the last U.S. facility responsible for the flight.

"I heard a statement at 14:34:04 [Greenwich Mean Time] which included the words . . . 'We should warn him,'" the affidavit said.

Plaintiffs said that statement was recorded as background noise on a microphone near the controller's position, but is not part of the official communications transcript released shortly after the incident.

The transcript shows that a controller unsuccessfully tried to contact Flight 007 five times between 14:32:21 and 14:34:37 to obtain a

routine position report. Flight 007 responded at 14:35:11 in a relay through a KAL flight nearby.

The Justice Department, in a motion filed Tuesday, had asked the court to forbid presentation "of disputed conversations or comments said to be present on air traffic control tapes concerning this case" until the court heard the tape "prior to entertaining plaintiffs' (or anyone else's) interpretations."

There had been no action on that when Donald W. Madole, chairman of the plaintiffs' steering committee, filed a motion containing the allegation.

When the transcript was released, FAA officials said that radio communications over the North Pacific frequently are difficult and that other aircraft often relayed position reports. Tracks of Flight 007's probable path have shown that it probably was out of radio

range of the Anchorage station at the time of the transmissions.

Much of the North Pacific flight track is beyond the range of civilian radar, and air traffic controllers monitor aircraft through reported positions based on the plane's internal navigation systems rather than on radar.

U.S. Air Force radar covers part of the flight track, although the State Department has insisted since the incident that no U.S. radar facility was in position to track or warn Flight 007 after it left civilian radar coverage. Several Air Force radar stations along the Aleutian Island chain have signals "remoted" to the Anchorage Center.

The plaintiffs ask, "Why did [the controller] try repeatedly to reach

Flight 7 at just that time?" They offer two possibilities.

● The controller himself was observing a nearby radar screen displaying an Air Force radar return that showed the flight's position.

■ The controller had been advised by Air Force trackers that Flight 007 was straying toward Soviet air space.

Most aviation experts think Flight 007's crew erred in programming the onboard navigational computer, then flew unaware as the computer guided the plane over Soviet territory. Flight simulations by the International Civil Aviation Organization support this scenario.

Recordings of air traffic control communications are not continuous because the tapes record only when controllers or pilots are broadcasting. Background discussions on the tapes are difficult to place in context because important parts of them may be missing.

Nonetheless, the plaintiffs' assertion that there was discussion about a possible warning seems certain to

encourage theorists who contend that Flight 007 was a U.S.-sponsored spy plane or one dispatched to see what the Soviet response to an intruding aircraft might be, militarily and electronically.

The most benign version is that U.S. officials were aware of the deviation but did not warn the plane, and took advantage of an intelligence "target of opportunity." U.S. officials deny all such assertions.

But the United States knows more about Flight 007 and its flight track than has been released officially, and this has been obvious from the day of the incident.

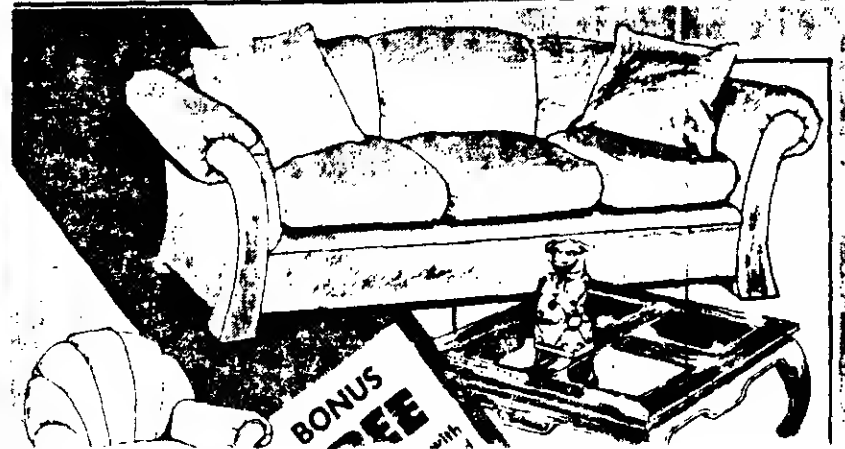
U.S. officials say, however, that their knowledge was gained after the fact, from recording radar and other intelligence sources, and was not the result of monitoring during the incident.

The plaintiff's filing was in response to a Justice Department motion to release the U.S. government as a defendant in the case. Other defendants include Korean Air Lines and the Soviet Union.

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What Happened to Flight 007?

Was the Airliner on an Unlucky Spy Mission or the Victim of Careless Pilot Error? Probably Neither, Says the Author, a Veteran Pilot. More Likely It Was an Early Navigation Error Combined with a Last-Minute Short Cut to Save Fuel. The Result Was the Soviet "Termination" of Flight 007.

By Russell Warren Howe

Ronald Reagan called it "one of the most infamous and reprehensible acts of history"—even a "major turning point in time." Most Western pilots refused to fly to Moscow for two months. Andrei Gromyko was barred from landing in New York and New Jersey and missed a UN session.

A Boeing-747 jumbo jet of Korean Air Lines had been blown out of the sky by a Russian missile. During the following week, 576 pieces of jetsam, including parts of bodies, washed ashore around Wakkanai on Hokkaido, Japan's northernmost island—about 200 miles from the ocean crash site. Another 167 pieces of flotsam were recovered from the waves by Japanese, American, and Soviet ships.

The Soviet Air Force's shoot-down of

Russell Warren Howe flew a Spitfire for the RAF in World War II and has been flying ever since. He has been a foreign correspondent for Reuters, the London Sunday Times, the Washington Post, and the Baltimore Sun and diplomatic correspondent for the Washington Times. He lives in Washington, where he is finishing his eleventh book, and, for fun, flies a Piper Cherokee out of Annapolis.

ILLUSTRATIONS BY LAURA STUTZMAN/BLOOM



flight KE007 on September 1, 1983, had killed 269 innocent civilians in the freezing waters off the Siberian coast, leaving most of the world angry at Moscow—and also mystified as to how the plane came to be flying over Sakhalin island in the first place.

Two years later, the puzzle of why the airliner was in Soviet airspace remains

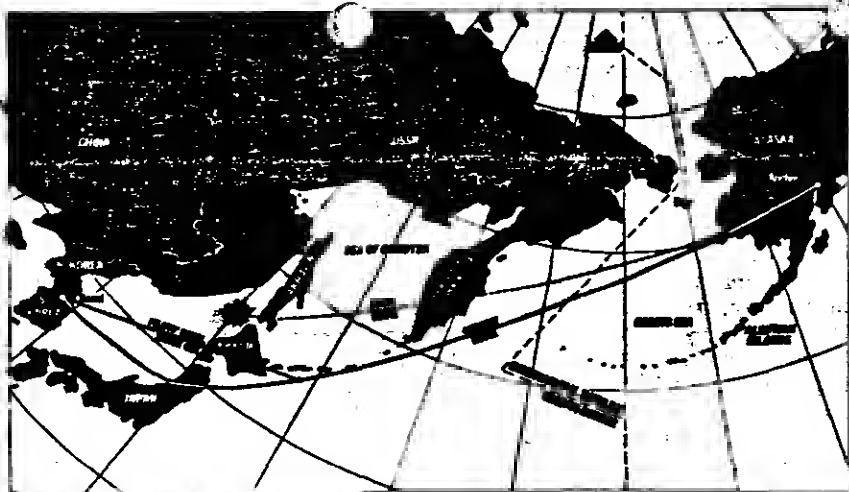
officially unsolved. The digital flight-data recorder in the tail of the fuselage was never found—unless it was secretly found by the Russians. The same is true of the voice recorder from the cockpit. These are the two "black boxes"—which are actually painted orange to make them more easily recognizable on a midnight-black seabed or a desolate mountainside.

Because of the nature of the Soviet area, the theory that flight KE007 was on an intelligence mission soon gained credence and was strenuously pushed by Moscow. Earlier that fateful September morning, the 747 had crossed the Soviet Union's super-sensitive, Kamchatka peninsula—which, in addition to exporting lobster to America, is also

home to Petropavlovsk naval port, which berths 90 nuclear submarines, including about 30 with ballistic missiles aimed at the US. Kamchatka also contains several air bases and radar stations, and the missile-test splashdown area of Plesetsk.

To have flown over Kamchatka was bad enough; to have gone on to Sakhalin

November 1985/The Washingtonian 147



was very provocative.

Sakhalin, although no bigger than Baja California, is host to six military airfields guarding the Soya Strait—the 30 miles of water between Russia and Japan that constitute the gate to the open ocean for the Soviet Pacific Fleet, based at Vladivostok.

No flyer doubts that the region is sensitive. North Pacific flying charts are boldly marked AIRCRAFT INFRINGING UPON NON-FREEFLYING TERRITORY MAY BE FIRED ON WITHOUT WARNING. According to General George J. Keegan Jr., the former director of Air Force intelligence, six Soviet colonels and lieutenant-colonels have been executed, over the years, for failing to destroy intruding American planes.

Moreover, that night Soviet defenses had already counted five flights by US intelligence planes waiting for the launch toward Plesetsk of an experimental Soviet SS-X-24 intercontinental ballistic missile—a launch that some theorized might be a breach of the SALT II agreement. None of the five spy-plane flights had infringed Soviet airspace, but they came close. Was KE007 taking advantage of its civilian status to spy inside Soviet territory? Was it being used to trigger Soviet defenses, so that a Ferret-D satellite overhead could film the results? This led to the most fundamental question of all: Was the flight off course intentionally?

The Korean Air Lines 747 had arrived at Anchorage from New York around 3 AM Alaska daylight time. There was a routine crew change, refueling, and servicing. The Soviets claimed that takeoff was delayed 40 minutes so that the jumbo could rendezvous with an American RC-135 spyplane monitoring the missile test. In fact, KE007 took off one minute early, at 4:59 local time, 10 PM in Seoul, just right to put the plane into Seoul's Kimpo airport around 6 AM, when Korean customs and immi-

gration clerks come to work.

The captain, Chun Byung-in, 45, was a meticulous and competent man. He had been with KAL for eleven years, after ten years in the air force, which he had left with the rank of major. A Presbyterian with a degree in economics, he had flown 10,627 hours, including 6,618 in 747s and five years flying in and out of Anchorage. Described by his employers as a "model pilot," and the recipient of a citation the year before for ten years of accident-free performance, he had occasionally flown his namesake, South Korea's President Chun Duhwan, on official overseas visits.

The first officer was Sohn Dong-hui, 47, who had joined KAL in 1979 after seventeen years in the air force, where he attained the rank of lieutenant colonel. He had flown 8,917 hours, including 3,411 in 747s and 52 previous North Pacific flights.

The flight engineer, Kim Eui-dong, was a graduate of the Korean Aviation College and was one of the new generation of pilots not trained in the military. In six years with KAL, he had acquired 4,012 hours, including 2,614 on 747s. The cockpit crew was as technically competent and experienced as any passenger could wish.

Also on board were a purser, three stewards, thirteen stewardesses, three armed anti-hijack sky marshals (the captain also carried a side-arm), and six pilots deadheading back from Alaska, for a total of 29 KAL employees.

Some of the 240 passengers could spread themselves over the 168 empty seats for the long night flight. In first class, along with the six deadheading pilots, the only paying passenger was Congressman Larry P. McDonald of Georgia, president of the John Birch Society, who was on his way to attend the 30th anniversary of the signing of the US-South Korea mutual-defense treaty.

KE007 was routed to fly R (for red) 20,

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one of four parallel routings from Anchorage to the Daigo navigational beacon in Japan, where the plane would turn right and cross the last stretch of ocean of its final leg into Seoul. R20 is the closest of the routes to Soviet airspace.

Aircraft join R20 at Bethel, about an hour west of Anchorage, and are soon beyond the reach of all American civilian radars. For 900 nautical miles, or about 100 minutes of flying, airliners are on their own, except for radio communication, until they are picked up again by Japanese radars. For this period, they are closely tracked only by Soviet controllers and invariably rely on inertial navigation systems, or INS. An INS is a computerized system of gyroscopes and other instruments that tells the crew precisely where the plane is, its altitude, speed, and other data. The INS is coupled to the autopilot, steering the plane along the chosen track.

Normally, an aircraft "tracks out" of Anchorage by steering the reverse of the Bethel-Anchorage track. But that night the Anchorage VOR navigational beacon was "down" for routine maintenance. In that situation, the pilot is supposed to track into Bethel on a prescribed magnetic compass heading, and then switch to INS.

From the start, this seems to have been an ill-fated flight. When First Officer Sohn radioed Anchorage that KE007 was over Bethel, the plane, according to its flip on the radar screen at King Salmon US Air Force Station, was actually twelve nautical miles north of the beacon and already on the fatal course that would take it into Russia. The Air Force did nothing about it; it had no responsibility for civilian planes. Between Bethel and Daigo are seven ocean way stations—points of latitude and longitude along route R20. Four of them are compulsory reporting points. All seven positions are programmed into the inertial navigation computer. As each waypoint approaches, two amber lights come on beside the pilots' INS panel; they go off as the plane passes over, or abeam (beside), the points. The first officer then radios Anchorage or Tokyo control with the flight's position.

Captain Chun's plane had radio problems. The incoming crew had reported that one of the three VHF (very high frequency) radios was "noisy." It was repaired at Anchorage and worked on the ground, but in the air it failed again. The other VHFs were also faulty. For KE007's communications with Anchorage, another KAL flight—KE015, heading for Seoul via Los Angeles—had to intervene and retransmit the exchange. In the airline world, such snafus are not unusual. Eventually, KE007 went onto

IF (high frequency) radio transmission.

Retracing KE007's odyssey from US Air Force and Soviet tapes, one can clearly see that the plane flew progressively farther off course as it made its way past the Nabic, Nokka, Neeva, Nino, and Nippi waypoints. At Neeva, KE007 was 150 miles off track. That's where Soviet radar first picked it up, its track confused for a while with that of a US Air Force RC-135 from Shemya, in the Aleutians, which the Russian controllers had noticed on their screens earlier.

By Nippi, it was 185 miles off course. But still KE007's crew didn't know it, because the lights come on as long as the airplane is within 200 miles of the waypoint. At 1709 Greenwich mean time (GMT), Sohn apparently saw his amber lights go off and radioed Tokyo: "Overhead Nippi-one seven zero seven Zulu, level three three zero, fuel one three two, temperature minus four nine, wind three two zero at four five knots, estimating Nokka one eight two six Zulu."

In English, this means that Sohn was claiming that the flight had crossed the Nippi waypoint just before, at 1707 GMT (when it was actually 185 miles to the north and close to Petropavlovsk in Kamchatka); that it was at 33,000 feet, with 132,000 pounds of fuel remaining, an outside temperature of minus 49 degrees Celsius, and a 45-knot wind coming from 320 degrees (approximately northwest). Sohn was also reporting that KE007 expected to be at Nokka by 1826 GMT. Tokyo ground controllers took Sohn's word for it; they had no way of knowing that the plane was off course.

More than an hour later, Sohn waited for the amber lights to signal that Nokka was coming up. But KE007 was now far more than 200 miles off course, so this signal never came. Flight KE007 was 365 miles off course when the Soviet Air Force "terminated" it.

When the errant plane had first flown toward Kamchatka, Soviet controllers, believing it to be a RC-135, assumed that it would turn tail just before entering Soviet airspace. When it flew straight across the peninsula, fighters scrambled. But at 33,000 feet and 520 knots, KE007 was safely in international space over the Sea of Okhotsk by the time fighters got close.

When the plane continued on a straight course, Soviet defenses were waiting for it. By the time it reached Sakhalin, three Sukhoi-15 interceptors were in the air. At 1812 GMT, while Sohn was waiting for the amber lights to signal the threshold of Nokka waypoint, one Soviet pilot, overheard by the Japanese, was telling his ground control: "I have visual contact."

Around this time, Japan's Air Self Defense Force Radar picked up a clip of KE007 passing over Sakhalin at a point about 45 miles north of their screens at Wakkanai. The Wakkanai controllers assumed that it was a Russian plane.

Now only a few minutes remained for all the mistakes to be made and to come together in one terrible finale in the pre-dawn of a Siberian night.

There was a half moon. On board the 747, the dinner and film were long over, and most of the passengers were dozing behind closed porthole blinds. The pastel-yellow panel lights on the flight deck were not visible from the outside, but the aircraft's wingtip navigation lights were on and the red anti-collision beacon on the fuselage was rotating.

A Soviet pilot said at 1821 GMT: "The target is at 10,000 meters (32,500 feet), flying 240 degrees."

From here on, the only recordings available are of one Soviet pilot, identified to this reporter by intelligence sources as Major Vasily Konstantinovich Kazmin, responding to his ground controller. The ground controller's comments were not recorded.

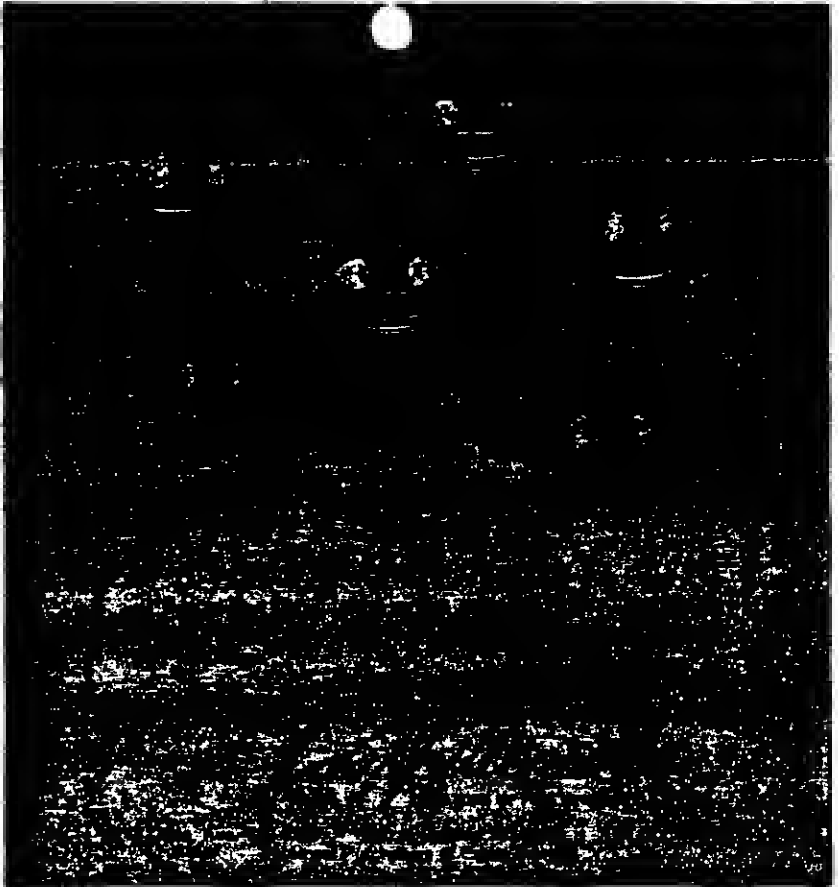
First, Kazmin complained that "the target is not responding," implying that he had tried to contact the airliner on the international emergency frequency, to which one of the 747's VHF radios should have been tuned. But these, we know, were not working well.

Then Kazmin snapped: "Locked on," meaning that the Su-15's two AA-2 missiles, which have the NATO code name Anab, had been targeted to the exhausts of the airliner's engines.

Then, in response to some instruction, the Russian major said: "Broken off lock-on. Firing cannon bursts"—presumably a warning measure, using tracers, suggested by the ground controller.

Chun, Sohn, and Kim, their heads down in the cockpit, apparently saw nothing, at least at first; and since Kazmin apparently fired his tracers from behind and below the 747, instead of alongside, there is little chance they could have seen them.

A minute before, shortly after 1820 GMT, KE007 had requested an altitude "step" from 33,000 to 35,000 feet; the craft could fly more economically at a higher elevation. Tokyo authorized the climb, which slowed the aircraft's speed. Major Kazmin's own speed remained constant, and recordings show that he unintentionally overtook his target. This situation offered him the best opportunity to carry out the international requirements for making an intruding plane follow an air-force escort to the ground—moving in front and to the left, where the civilian pilot can see the es-



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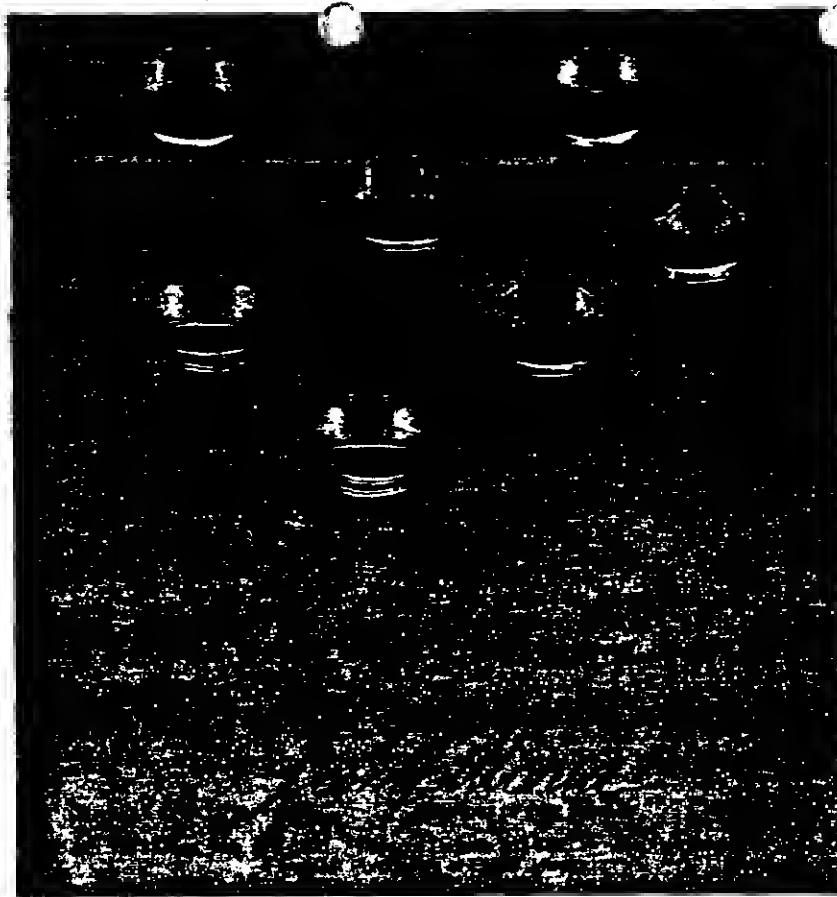


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cort, and wagging the fighter's wings.

Instead, Kazmin was soon saying: "Now I have to fall back a bit. . . . Say again? . . . I am dropping back. . . . Now I will try rockets." Was he deliberately staying out of the airliner's sight, thirsting for a kill? The evidence grimly raises that suspicion.

At 1825 and eleven seconds, the Soviet pilot said: "Understood. I am locked on. Target is at eight kilometers."

Five seconds later, he said: "I am closing on the target. I have already switched on." A few kilometers away, copilot Sohn must still have been wondering why the lights announcing Nokka had not yet lit up.

There is no indication the crew knew they had been hit by a missile, only that all four engines were out.

At 1826 GMT—Sohn's estimated time for passing Nokka—Kazmin told his ground control: "I have executed the launch. . . . Target destroyed."

At 1827, Sohn was talking to Tokyo. The message was garbled, and Tokyo tried to call the plane on two other frequencies. What is preserved is: "Rapid decompression. . . . All engines. . . . Rapid decompression. . . . One zero one two delta. . . ." There is no indication that the crew knew their plane had been hit by a missile—only that all four engines were out and that there was a loss of cabin pressure caused by the entry of outside air. "Delta" is thought to refer not to the letter D, but to the finally noticed presence of the Soviet Sukhoi—planes with delta wings.

In the waters between Sakhalin and Moneron Island, the 99-ton Japanese squid trawler *Chidori Maru 58* heard an explosion above. The blip of the KE007 took three minutes to go off the Wakkanai screens, indicating that the pilots wrestled with the plane before it finally dived into the water.

All that day, and for days afterward, the western world erupted in anger. The Kremlin did not help by a series of contradictions and evasions. The Soviet pilots who had intercepted the 747 gave the lie to their own government's claim that the airliner was not showing lights, that visibility was difficult, and so on. Marshal Nikolai Ogarkov, the Soviet chief of staff, made the improbable claim that the order to shoot down the plane had been given by a "local commander," with Moscow

only being "informed later."

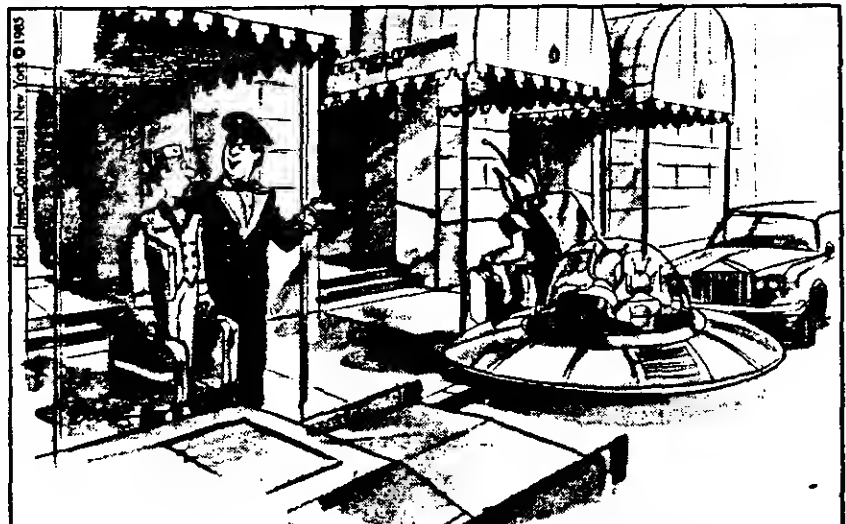
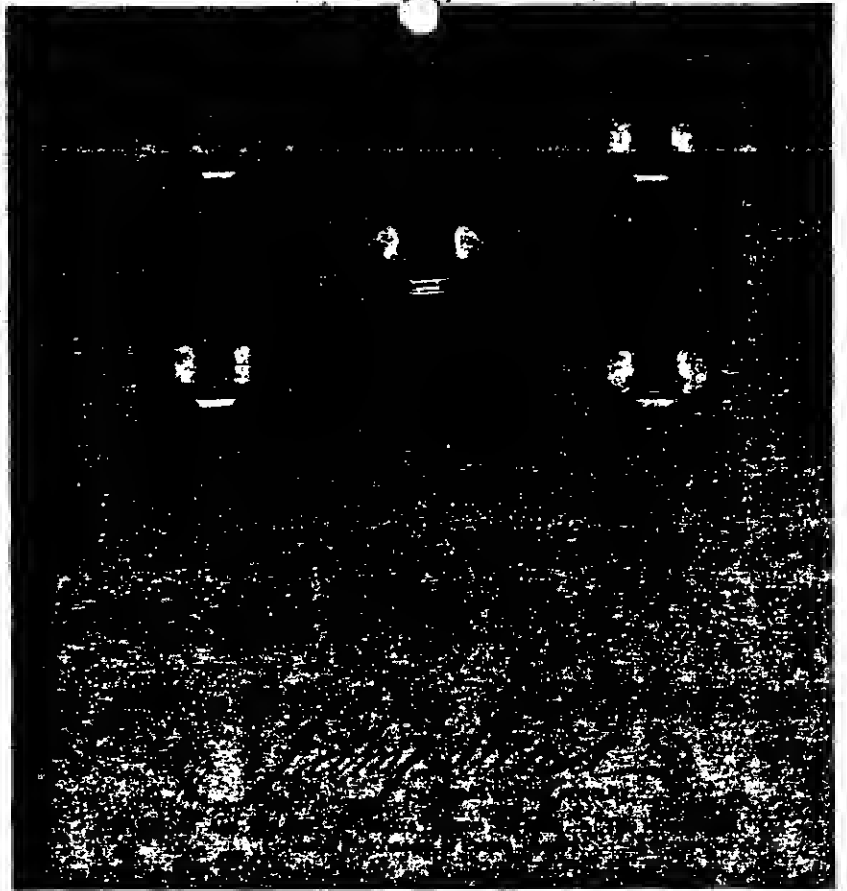
Actually, according to intelligence sources, the order probably was given by General Vladimir Govorov, commander of Soviet Far East Forces, at the request of Colonel-General Semyon Romanov, chief of staff of the Air Defense forces. Romanov had had to put off the SS-X-24 test because of the foreign intrusion into Soviet airspace, and was probably not in the best of late-night moods.

Initially, the Soviet pilots probably did mistake the 747 for an RC-135, a military version of the Boeing 707. Viewed from behind and below—the normal attack position—the raised flight deck and lounge of the 747 would not be visible; the similar designs of the two Boeing planes would be indistinguishable in perspective, especially at night. But Major Kazmin eventually flew alongside and in front of KE007 before shooting it down, and by then had reported the flashing lights of a civilian passenger plane.

Using an "intelligence" pretext to shoot down airliners is not new. In 1951, a Constellation of Israel's El Al, flying over Bulgaria on its way from Vienna to Tel Aviv, was mistaken for a US military Constellation, fired on, and forced to land. In 1971, Israel itself earned global opprobrium by shooting down a Libyan airliner that had crossed the Suez Canal in a sandstorm on its approach to Cairo. It was over Egyptian territory occupied at the time by Israeli forces. All but thirteen aboard died, including the French captain.

In April 1978, KAL flight KE902 was fired on and forced to land on a frozen lake near Murmansk after losing its way on a flight from Paris. It was 200 miles inside the Soviet Union. Two passengers were killed by the Russian bullets.

Because of the 1951 confusion between a spy plane and an airliner, and the mendacious Israeli and Soviet claims to the same confusion in 1971 and 1978, many Americans and others were tempted to accept the Moscow story that KE007 was on a spying mission. More Machiavellian theorists postulated that the aircraft was genuinely lost, but that the US Air Force had let it fly into Soviet airspace without warning it, in order to get a picture of Soviet reactions and countermeasures. The International Civil Aviation Organization referred all the theories for the plane's invasion of Soviet space to its Air Navigation Commission, which rejected the intelligence-mission explanation as fanciful. Even beyond the technical evidence, the notion that an airliner with two or three hundred civilians aboard had been intentionally used as a decoy for Soviet defenses never had much merit in the first



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place, except for the sort of people who believe that John F. Kennedy was shot by the freemasons. An RCV (remotely controlled vehicle, or pilotless plane) would be much more efficient than a 747. These tiny craft are hard to hit and cheap enough to be expendable, while still capable of triggering defenses.

The Air Navigation Commission found no evidence that either Tokyo control or the plane's crew had been aware of any deviation from course, although it pointed out that the crew

The Soviet Union deserved condemnation for its murderous overreaction. But KE007 was trespassing. Why?

should have followed "company procedures" to verify whether it was on track. The airliner, the commission said, had no excuse for being lost except "a considerable degree of lack of alertness and attentiveness on the part of the entire flight crew, but not to a degree that is unknown in international civil aviation." The commission scored the use of force against the plane and Moscow's refusal to accept an international investigation team.

Obviously, the Soviet Union deserved condemnation for its murderous overreaction, and for its subsequent obfuscations. But KE007 was trespassing. Why?

Summing up, the Air Navigation Commission discounted "unlawful interference [i.e., hijacking], crew incapacitation, deliberate crew action associated with fuel-saving incentives, or extensive cockpit avionics/navigation systems failures or malfunctioning."

It is on the third point that the report probably goes wrong. "Deliberate . . . action associated with fuel-saving" means short-cutting to earn Korean Air Lines bonuses for using less fuel than a flight normally required.

Former KAL pilots are reluctant to impugn the professional honor of Captain Chun and their other dead comrades on the flight, and they will only speak if they are not identified. Most, being pensioners of the airline, are afraid to speak at all; but those who agreed to talk to me were all agreed that short-cutting to win the company's fuel-saving bonus was customary, in pre-Sakhalin days, and that it was normally a risk-free enterprise.

The pilots say that when programming the INS computer, standard proce-

dures was to replace the last reporting point—Daigo—by the Seoul coordinates, reporting "overhead Daigo" while they were actually far north of the Daigo beacon, cutting straight across Hokkaido and the Sea of Japan to the Korean coast, saving thousands of pounds of fuel on the four big engines, and earning hundreds of dollars each in bonus money for the three pilots.

Both KAL and the Air Navigation Commission dismiss the short-cutting theory. They conclude that short-cutting would have been noticed, either on radar at the time or by examining other technical data afterwards. But all the reasons for rejecting the short-cutting theory presuppose that short-cutting would take place all along the route. In fact, as the retired KAL pilots told me, the usual practice was to cut short only the final leg. (See map on page 149.)

But why was KE007 so far off course for so long—a remarkable five hours and 26 minutes before being shot down? Many analysts, including the best local reporter on the issue, Michael Westlake, managing editor of the *Far East Economic Review* in Hong Kong, lean toward the so-called "heading mode" theory, one of two possibilities cited by the Air Navigation Commission.

This theory assumes that, by leaving a switch in the wrong position, the pilots flew *all night* the heading they had set themselves to go from Anchorage to Bethel ("heading mode") instead of the one determined by the inertial navigations computer ("INS mode") to follow route R20.

The commission's report says: "In such a situation, with the INS system activated, although not controlling flight navigation, the crew would have been provided with regular indications of flight navigation waypoint passages at or near the flight-plan estimates for such passages and would therefore have been under the impression that they were navigating in the INS mode." The second possible explanation, said the Commission, was that someone got one digit wrong when programming the INS computer, putting Anchorage ten degrees of longitude—600 nautical miles—east of where it really is. Such an error would have thrown KE007 badly off course on its first leg, but not thereafter.

The crew presumably thought, in its last moments, that it was off Hokkaido, because it had set its transponders at 1300—a distance-measuring frequency used in Japanese airspace. And they presumably thought that they were in "INS mode," not "heading." And perhaps they were.

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well, KE007 would simply have flown across Hokkaido instead of Honshu, and would have come a little closer to North Korea in the final minutes.

That KE007 was off course unintentionally because it intended to be off course later—with the short cut—cannot be proved. But that explanation alone seems to fit the evidence.

The airline, even if not plagued by lawsuits, would prefer a mechanical error for which the computer manufacturer could be blamed. The next best would be "innocent" pilot error. Any error based on a questionable intention—in this case, short-cutting, to earn the airline's fuel-saving bonus—is unacceptable, and the company is all but silent on the subject.

The Sakhalin tragedy of September 1983 was followed by the crash of a Korean DC-10 freight plane at Anchorage in December, injuring seven. The following month, January 1984, a KAL plane skidded off an icy runway at Seoul Airport; no one was injured.

Shortly after all these mishaps, KAL took a number of steps that were almost surely related to Sakhalin: First, it quietly abolished the fuel-saving bonus that for years had been an inducement to short-cutting; then, to reduce the risk-taking associated with ex-military pilots, fourteen of these were discreetly forced to resign. All remaining flight crews went through a retraining process.

Cho Chung-kon (known as Charlie Cho), who was 51 at the time, took over as president of the company from his 64-year-old brother, Cho Chung-hun (known as Harry Cho), who became chairman. Several top cadres were reshuffled. Korean Air Lines changed its name to Korean Air, and the planes got a new livery. Flight 007 had already become flight 017.

The airline is still in search of its reputation. Seasoned globetrotters would agree that it is not in the same class as Singapore Air, Japan Air, Thai International, or Air India. But it is the world's tenth largest (and sixth among freight carriers), with 38 planes and more than 2,000 flight-deck and cabin staff, and its service reputation, while not at top Asian standards, is probably better than that of any American airline. Although the airline's record on safety is probably as good as that of any one of its size with such extensive routes, it is now anxious to establish a record for caution.

The tragedy at Sakhalin has produced some good. It has forced the US Air Force to cooperate on the Pacific route. At Shemya, American civilian and air-force controllers now work together. Because the northern edge of R20—the track from Anchorage to Seoul that



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KE007 supposedly was flying—con- within eleven miles of Soviet airspace, all cases of aircraft flying more than eleven miles off course are now reported to the pilots. Since November 1983, there have been 38 such incidents, including two planes that were more than 25 miles off course. Since December 18, 1984, there has also been an exit radar on St. Paul's Island, to help airliners "track out" from Alaska.

Korean Air, Litton Industries, and the US government are being sued in Washington and Tokyo; one issue is whether the federal government "has a legal duty to warn or advise civilian aircraft [that are] off course." At Korean Air's request, the US District Court in Washington has ordered the Federal Aviation Administration not to answer press questions, and Korean Air has given its employees a choice between silence and unemployment.

Lloyds has paid Korean Air \$35 million as "hull insurance" on the lost plane.

The airline carried \$400 million of insurance with Lloyd's; claims brought by the kin of victims total about \$2.3 billion. Korean Air has normally refused to pay more than \$75,000 per victim; it has, however, paid 80 million won (about \$100,000 at the time) to a Korean legislator whose daughter perished in the crash.

Those who may have known for sure what happened are scattered along the deep floor of the North Pacific. Two of the victims, deputy purser Kim Yak-kun and flight attendant Suh Jong-suk, were engaged, and were married posthumously by their families. One of his suits and her traditional *han-bok* dress were buried together. Another stewardess on the flight, Cho Hyong-sim, also was married posthumously to her fiancé, Kim Bon-chon, who was a passenger on KE007.

Captain Chun's widow, Kim Ok-hi, never accepted the easy explanation of pilot error, advanced by the airline and the Air Navigation Commission. I think that she was right. The man whom she remembers as insisting that everything in the house be in the right place was not incapable of a mistake, she says, but he would not have left a switch in the wrong place for six hours, especially with two other pilots to help him.

She says his son, now ten, plans to be a pilot. What better way could his father's ghost be put to rest? Like all pilots of our generation, Chun was familiar with "unforgiving" planes—the ones that must be flown strictly according to the book. Now we would seem to have a new problem—unforgiving navigation computers. □

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New York Times 9/11/83 Page 10

...trying to divide Asia and West Indians here by observing that the plots were directed at Asian... ter in place, and her aides made it clear that there would be no change in basic policy.

U.S. Denies Accusations in Suit Stemming From K.A.L. Downing

By PHILIP SHENON
Special to The New York Times

WASHINGTON, Sept. 10 — The Justice Department denied today that American air-traffic controllers knew that Korean Air Lines Flight 007 was off course and that they discussed warning the pilot before the plane was shot down by a Soviet fighter.

Lawyers representing families of passengers aboard the plane asserted last month that a Government tape showed that the words "we should warn him," presumably referring to the pilot, were heard in the air-traffic control station in Alaska that oversaw the flight, which carried 269 people.

In a sharply worded brief, Justice Department lawyers rejected claims that those words could be heard on the tape and accused the lawyers of manipulating evidence. The brief was filed in

Federal District Court here in response to lawsuits filed against the Government by the families.

According to the 35-page brief, a sound specialist from the Federal Bureau of Investigation, Bruce E. Koenig, listened to the tape and determined that the background conversation was unintelligible.

The Government has stated that no one knew the Korean airliner was veering hundreds of miles from its prescribed route on Sept. 1, 1983, when it was shot down over Sakhalin Island off the Soviet Pacific coast.

"The aircraft began drifting significantly off course sometime after leaving radar coverage, apparently entered Soviet airspace and was deliberately destroyed in flight by Soviet missile fire," Acting Assistant Attorney General Richard K. Willard said in the brief.

Lawyers for the families have said that their specialist, Raymond H. Yeager, a veteran former air controller, listened to a copy of a recording of ground-to-air contacts made several hours before the plane was shot down.

In an affidavit, Mr. Yeager said he could hear someone make the "we should warn them" statement. The lawyers have suggested that the words might have been spoken by a supervisor for the Federal Aviation Administration who noticed the plane's deviation from course.

Mr. Koenig, the F.B.I. official, said he had listened to the tape "hundreds of times" and used sophisticated electronic devices to enhance the quality of the sound. Still, he said, no conversation could be made out.

alt U.S. Space Test

ILES MOHR
New York Times

The suit was filed by four Democratic Representatives — George E. Brown Jr. of California, Joe Moakley of Massachusetts, John A. Seiberling of Ohio and Matthew F. McHugh of New York — and the Union of Concerned Scientists, which favors arms pacts.

Congress last year approved three tests, but said they could not be conducted until the President certified that the United States was "endeavoring, in good faith," to negotiate the "strictest possible limitations" on anti-satellite weapons; that, pending such an agreement, testing was necessary "to avert clear and irrevocable harm to the national security," that testing would not be an irrevocable step that would gravely impair prospects for a treaty, and that the tests would not violate the 1972 treaty limiting antiballistic missile weapons.

On Aug. 20, President Reagan sent to Congress a certification contending that the requirements had been met.

However, the United States has refused to begin negotiations suggested by the Soviet Union, on the grounds that an agreement on anti-satellite weapons, known as ASAT, would not be verifiable and that it could identify no proposed limitation that would be in the overall interests of the United States. A White House statement said, "we will continue to study possible ASAT limitations in good faith."

Representative Brown and Howard R. W. Rostenkowski, director of the Union of Concerned Scientists, said today that the President had made "a mockery" of the law. The lawmaker said Mr. Reagan had shown a "flagrant disregard" of the Congressional requirement.

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Aide at Carbide Cites Device As Cause of Chemical Leak

NITRO, W. Va., Sept. 10 (AP) — A chemical company owner who was one of five people overcome in a leak of a foul-smelling gas at his plant said Monday that a measurement device that should not have been on a storage tank was to blame for the leak.

The owner, Elmer Fike, said a section of glass piping, with valves on both sides, measured the amount of chemicals in the tank, but he said it was not needed because the tank was being used primarily for storage. A spokesman at the plant said the company made the chemical for Union Carbide's Institute plant for use in pesticides.

Methyl mercaptan leaked from from the plant for two and a half hours Sunday, but no one was evacuated. The flammable substance can be fatal if inhaled or absorbed through the skin.

According to legal experts, the Pope may be legally powerless to stop the column even if he should want to do so. James C. Goodale, a lawyer for the firm of Debevoise & Plimpton in New York City, said that even though the Pope's words are in the public domain and, theoretically, can be used and copied by anyone, a synthesis of his words could probably be copyrighted because the words would have been reassembled into something new.

In The Post, the column appeared on the Op-Ed page under the title "Observations by Pope John Paul II." At the end of the column, in *italics*, was printed: "This column, taken from the writings of Pope John Paul II, is edited by Dr. Alfred Bloch with the concurrence of the highest Vatican officials. The column will appear regularly in The Post."

The column, of about 700 words, began with a denunciation of the South African Government's policy of racial separation, and then touched on such topics as the need to peacefully resolve conflicts.

Dr. Bloch is a scholar who has frequently translated the Pope's writings for publication. Although the first column appeared to be a single narrative by the Pope, Dr. Bloch created the column by selecting sections from various writings and speeches by the Pope and editing them together, according to Mr. Klebanoff.

Agreed With Vatican Cited

The column was announced with much publicity earlier this summer and provoked a flurry of comment regarding the Pope's apparent participation in such a venture. In response to wide interest from news organizations, Mr. Klebanoff and Mr. Newcombe said at that time that they had reached agreement with the Vatican for a weekly column by the Pope. Yesterday's strongly negative response from the Vatican press office specifically referred to a Spanish version of the column that appeared Saturday in ABC, a daily newspaper in Madrid.

In a statement issued yesterday on behalf of the two syndicates, Mr. Newcombe said that the syndicates decided to sell the column because E.A.V. Associates "gave us representation that it had authorization from the Vatican for the column." Mr. Newcombe said that he had seen contracts between E.A.V. and the Vatican Library regarding the venture.

The syndicates have sold the column to about 200 newspapers, 100 in the United States and the rest in about 20 other countries. But apparently the authorization was ambiguous, resulting in what Mr. Klebanoff described yesterday as a "bureaucratic issue."

E.A.V., Mr. Klebanoff's company, gained worldwide rights last year to license various Vatican-related products, such as Christmas ornaments and cards on behalf of the Vatican Library. The column is only one of many such products, and not one with great financial potential, according to Mr. Klebanoff.

But the Vatican statement created confusion regarding the arrangements by denying that there was any agreement.

According to the statement, "For the editorial initiatives concerned there have not been any agreement, of any kind, neither written nor oral, with exponents of the Vatican."

HL

Washington Post 9/11/85 page A16

KAL Controllers Defended

Jet's Course Deviation Unknown, U.S. Says

By Douglas B. Feaver
Washington Post Staff Writer

The Justice Department said yesterday that Federal Aviation Administration air traffic controllers handling Korean Air Lines Flight 007 had no way of knowing that the flight was straying off course, ultimately to be shot down by Soviet fighters Sept. 1, 1983, killing all 269 people on board.

The statement, in U.S. District Court papers, came in the civil lawsuit brought by the families of the victims against the airline, the U.S. government and others.

The plaintiffs' recording expert said that air traffic control tapes contain the words "We should warn him" as background conversation. The words are heard as a controller in Anchorage was having trouble communicating with Flight 007, the plaintiffs say.

The controller was seeking a radioed position report from Flight 007. Although direct contact was not established, Flight 007 subsequently relayed its position report through another KAL plane, a circumstance the FAA has said is not unusual.

The communication difficulty occurred five hours before the plane was shot down, but the plaintiffs

contend that it had already strayed far enough off course to be warned.

The Justice Department included an affidavit from FBI special agent Bruce E. Koenig, a tape expert. Koenig said, "Any statement . . . regarding what words are in the background conversation . . . would be pure and unwarranted speculation. I do not believe that anyone can state to even a reasonable degree of scientific certainty what is said."

The Justice Department denied that the controller was observing a radar screen carrying an Air Force radar return that showed the flight's position. It also denied that Air Force radar trackers had told controllers Flight 007 was straying.

Further, the department said, at the time that plaintiffs allege the plane was demonstrably off course, it was beyond the range of military radar.

"The evidence is clear that the controllers at Anchorage had no way of knowing that the aircraft was not where its pilot said it was," the department said. "Plaintiffs' offering of what must surely be the most convenient interpretation of background conversation imaginable does nothing to change this."

Donald W. Madole, lead attorney for the plaintiffs, declined to comment.

8-259
+RECORDED
10/30/85
kk

FEDERAL BUREAU OF INVESTIGATION:
UNITED STATES DEPARTMENT OF JUSTICE
Work Sheet

To: B. W. Franklin
Airway Facilities Accident Coordinator
U.S. Department of Transportation
Federal Aviation Administration
701 C Street, Box 14
Anchorage, Alaska 99513

FBI FILE NO.

LAB. NO. 51017067 E QZ

Re: KOREAN AIR LINES DISASTER

YOUR NO.

Examination by: [REDACTED] b7c

Examination requested by: Addressee

Reference: Letter dated with no date

Examination requested: Signal Analysis

Specimens received: 10/17/85

ALSO SUBMITTED:

1. One copy of "ZAN COMM ~~Lineup Procedures~~ ^{LWEUP PROCEDURES}"
2. Two copies of recording system drawings.

At Anchorage Air Route Traffic Control Center with
ET [REDACTED] 10/24 → 26/85.
b7c



Jim Vaughan
MANAGER, ANCHORAGE ARTCC

FEDERAL AVIATION ADMINISTRATION
5400 DAVIS HIGHWAY
ANCHORAGE, ALASKA 99506-1697
OFFICE: (907) 269-1136

WorksheetConclusions:

1. The earpieces on the headset and headset ~~with~~ and the 106th Speaker will pick-up room sounds ~~which~~ that are recorded on channel 4 of the appropriate Magnavox recorder. The sensitivity and quality is best on the headset, followed by the 106 Speaker and then the headset.
2. No background room sounds are pick-up by the FAA (radio) headset.
3. Normal ~~can~~ level room conversation^{2'} from the headset earpiece and the 106 Loud Speaker are partially understandable. The earpiece on the headset is not sufficiently sensitive to pick-up the conversation.

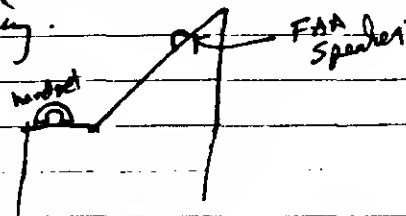
Worksheet

Audio Tests:

1. Ran at FAA Center, Chandler, AZ at position D-12 (matches D10/11 on transcription).
2. Nagra IV-S, 15ips, both channels, connected to phone jack output on Magnascope TR 1720 in basement, switchable between direct and reproduce (tape).
3. Sound source was a small ~~sp~~ loudspeaker fed a 1KHz tone, producing a ^{100dB} ~~100~~ Hz signal rich in other material.
4. Sound level determined with an IVEE IE-30 A Audio Analyzer.
5. Between midnight & 2AM average room noise averaged 55-60dB SPL with no one talking near microphone.
6. Normal ^{to slight noise} speaking voice at 2' ~ 70-75dB SPL.
7. Covered other possible inputs when test run.
8. All controller & supervisor advised that at time of questioned voice info. the controller would always be using a headset and not a headset due to the limited traffic.

Reel	Test #	Description
1	1	At 120dB SPL into headset earpiece - direct, reproduce, direct, or then reproduce.
1	2	Same as #1 except 106 Speaker
1	3	Same as #1 except FAA (radio) speaker
1	4	Same as #1 except headset earpiece.
1	5	Same as #4 except 80dB SPL
1	6	Same as #1 except "
1	7	Same as #2 except "
1 (part of 12)	8	Normal conv. at 2 feet, headset facing talker - direct, repro, direct, repro
1 (part of 12)	9	Same as #8 except headset facing down
2	10	Same as #8 except headset facing away from talker
2	11	Normal conv. at 2 feet, 106 Speaker - disregard
2	12	Normal conv. at 2 feet, 106 Speaker - direct, repro, direct, repro
2	13	Normal conv. at 2 feet, headset earpiece facing talker, ^{direct} repro, dir, repro.

Output of FAA speaker, right in front of speaker, ~ 90 → 100dB SPL depending on output. About 70 to 80dB SPL on counter where headset would be lying.



WorksheetAudio Test Results:

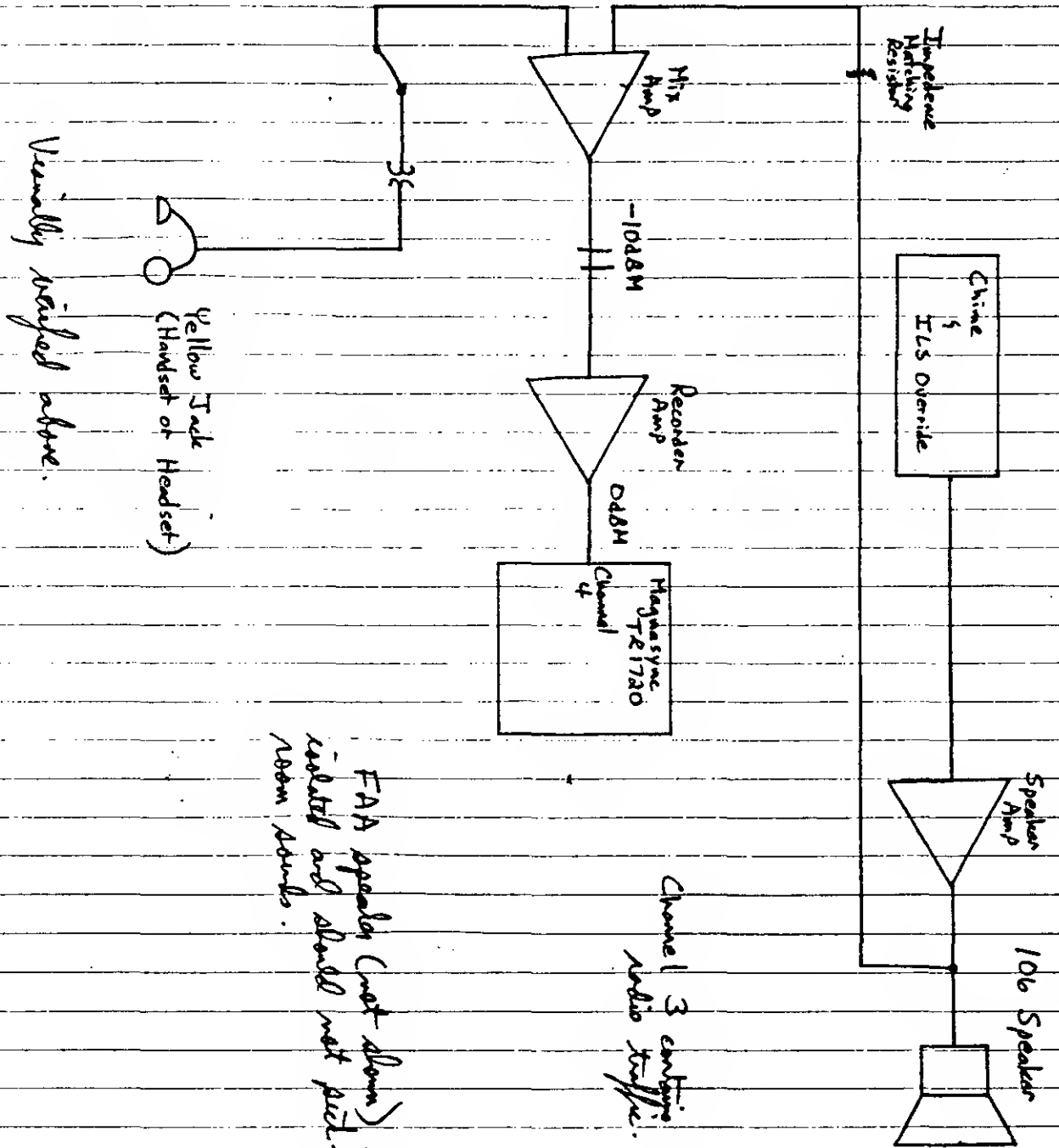
- Test #1 - Very high-level - over-drives recording system
 Test #2 - High level ~ 40dB S/N in reproduce, muffled, limited freq. resp.
 Test #3 - Tone not heard
 Test #4 - High level ~ 35dB S/N in reproduce
 Test #5 - Slightly above averaged noise on direct, lost in noise on reproduce
 Test #6 - About 28dB above noise floor in reproduce mode
 Test #7 - About 7-8dB above noise " " " "
 Test #8 - Only partially understandable on direct & reproduce even with filtering.
 Test #9 - Slightly better than Test #8, but still not completely understandable
 Test #10 - Same as #8
 Test #12 - Slightly poorer quality than test #8 - only a few words understandable
 Test #13 - Not understandable on repro.

Remarks

Inconclusive in comparing channel 3 to 4 for "Oriental language"

Wiring Diagram

Show channel 4 inputs that may produce ^{pick up} sound ^{even} when the microphones are not activated.



Worksheet

Comments

1. Great wiring job - no wiring cross-talk possible at the limited dynamic range the recorder handles.
2. Controllers used yellow facts for the recordings in question.
3. Background sounds picked up on 106 speaker not affected by volume control.
4. "Oriental language transmissions had be picked up from a speaker broadcasting material from channel 3.

UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF COLUMBIA

IN RE KOREAN AIRLINES
DISASTER OF
SEPTEMBER 1, 1983

)
) MDL DOCKET NO. 565

)
) MISC. NO. 83-0345

)
) ALL CASES
)

DECLARATION OF SPECIAL AGENT
BRUCE E. KOENIG PURSUANT TO 28 U.S.C. §1746.

I, Bruce E. Koenig, hereby declare as follows:

1. I am a Supervisory Special Agent for the Federal Bureau of Investigation, assigned to the Engineering Research Facility, Newington, Virginia.

2. My responsibilities include the analysis of magnetic tapes of the type used on most audio tape recorders, including those involved in this case. My work is in large part devoted to forensic examinations of such tapes, that is, tape enhancement, voice comparisons, signal analysis and tape authenticity. In general, the purpose of my work is to increase the intelligibility of audio tapes to the maximum degree possible given existing technology.

3. My formal education includes a Bachelors Degree in Physics and Mathematics from the University of Maryland and a Masters in Forensic Science from George Washington University. In addition, I have taken electronics and other technical courses through the DeVry Institute of Technology, the University of Utah and Northern Virginia Community College. I

am currently working toward a Masters Degree in applied physics from George Mason University.

4. In addition to the intensive training afforded me at the Technical Services Division and the FBI Laboratory, my particular training in magnetic tape analysis includes attendance at numerous schools and seminars in the magnetic tape analysis field. Among the courses I have completed have been in the use of spectrograms in tape analysis (at Voice Identification, Inc. in Somerville, New Jersey), the use of digital analysis equipment (at Spectral Dynamics Corporation, San Diego, California) and the principles of digital signal processing from Dr. Thomas Stockham, Jr. and his staff at the University of Utah.

5. I am a member of the Audio Engineering Society, the Acoustical Society of America and the American Institute of Physics.

6. My previous experience in the analysis of voice tapes and their contents includes analysis of the audiotapes in the "ABSCAM" prosecutions and in the investigation from 1979-1982 of the "second gunman" theory associated with the assassination of President John F. Kennedy. I have performed analysis of tapes in connection with at least fifty aviation cases, including the Air Florida crash. During my career, I have conducted examinations of more than 6,300 separate audio recordings.

7. The Signal Analysis Unit of the Engineering Research Facility employs six persons, including myself, qualified as tape examiners. Each of them is formally trained in the physical sciences and has received intensive on-the-job training as technicians in this specific area, before they are regarded as qualified to testify as to the results of any analysis.

8. The tools we use include a multimillion dollar array of state of the art equipment which exceeds in quality and sophistication any equipment of its kind anywhere in the world. Among the entities which regularly seek our assistance are Federal, State and local law enforcement agencies in all 50 states, the District of Columbia, Puerto Rico and the Virgin Islands, as well as, to date, twelve foreign governments.

9. On Monday, August 26, 1985, the original tape recording of communications recorded at the Anchorage Air Route Traffic Control Center on August 31, 1983 was delivered to me by an official of the Federal Aviation Administration at the Engineering Research Facility.

10. I listened twice to portions of that tape, including the portion pertaining to 1433:55 to 1434:37Z on the original tape on all twenty channels contained on that tape and directed my assistant to listen to them a third time.

11. No information was found on any channel other than track 4 which would correspond in time to the disputed sounds; the sounds are not "crosstalk" randomly picked up from another track.

12. I then made a high quality copy of the original tape for the period 1433:55 to 1434:37Z, using a Revox PR 99 reel-to-reel tape recorder.

13. I subjected the resulting copy to filtration through sophisticated digital filters produced by Digital Audio Corporation, with no improvement in intelligibility. I next ran it through several analog filters, specifically the Ithaco Band Pass Filter and the Orban Parametric Equalizer. This resulted in a very slight improvement in intelligibility.

14. I next copied this filtered signal onto a professional quality cassette recorder, a Revox B710MKII.

15. The cassette recording which is Exhibit A hereto is a copy of the resulting tape.

16. I have listened to direct and enhanced copies of the pertinent period several hundred times.

17. My conclusion is that the voice information contained during this period is below the lower limits of what the system involved was designed to record.

18. Exhibit A is the clearest version of the information which can be produced with existing technology and in my opinion cannot be made more intelligible.

19. I have reviewed the affidavit of Raymond H. Yeager submitted in this case, as well as various correspondence in which is expressed opinions regarding the contents of this recording.

20. In my opinion, any statement, by anyone, including myself, regarding what words are in the background conversation between 1433:55 and 1434:37Z would be pure and unwarranted speculation. I do not believe that anyone can state to even a reasonable degree of scientific certainty what is said.

9/5/85
Dated

Bruce E. Koenig
BRUCE E. KOENIG

XXXXXX
XXXXXX
XXXXXX

**FEDERAL BUREAU OF INVESTIGATION
FDIPA DELETED PAGE INFORMATION SHEET**

7 Page(s) withheld entirely at this location in the file. One or more of the following statements, where indicated, explain this deletion.

- Deleted under exemption(s) _____ with no segregable material available for release to you.
- Information pertained only to a third party with no reference to you or the subject of your request.
- Information pertained only to a third party. Your name is listed in the title only.
- Documents originated with another Government agency(ies). These documents were referred to that agency(ies) for review and direct response to you.

_____ Pages contain information furnished by another Government agency(ies). You will be advised by the FBI as to the releasability of this information following our consultation with the other agency(ies).

_____ Page(s) withheld for the following reason(s):

For your information: _____

The following number is to be used for reference regarding these pages:

149-12981-32 enclosure

XXXXXX
XXXXXX
XXXXXX

XXXXXXXXXXXXXXXXXXXXX
X DELETED PAGE(S) X
X NO DUPLICATION FEE X
X FOR THIS PAGE X
XXXXXXXXXXXXXXXXXXXXX

8-259
RECORDED
9/4/85
kk

6

FEDERAL BUREAU OF INVESTIGATION:
UNITED STATES DEPARTMENT OF JUSTICE
Work Sheet

To: U.S. Department of Justice
Civil Division
Office of the Assistant Attorney General
Washington, DC 20530

Attention: Richard K. Willard
Acting Assistant Attorney General

Re: Korean Air Lines Disaster
September 1, 1983

FBI FILE NO. 149-12981
LAB. NO. 50826030 E QZ
YOUR NO. MDL Docket No. 565
Misc. No. 83-0345

Examination by: [REDACTED]

b7c

Examination requested by: Addressee

Reference: Letter dated 8/22/85

Examination requested: Enhancement - *Miscellaneous*

Specimens received: 8/26/85, personally delivered by [REDACTED]

b7c

Q1 One Tape

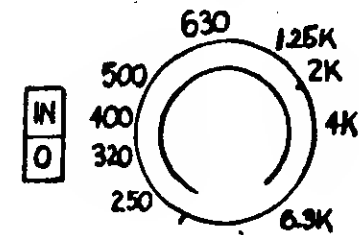
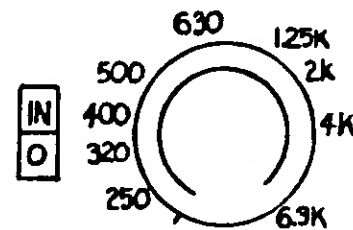
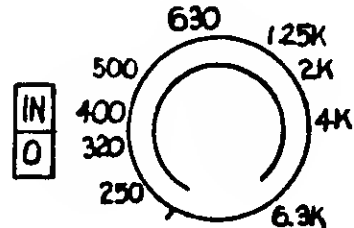
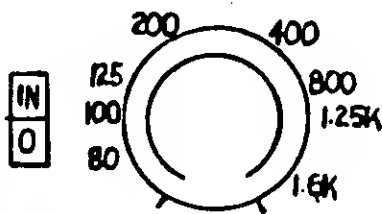
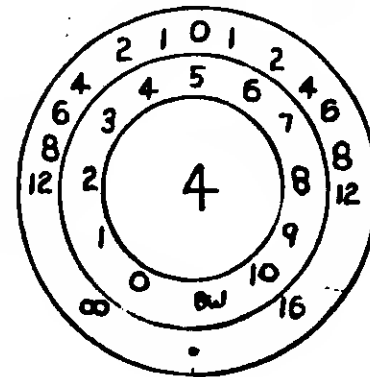
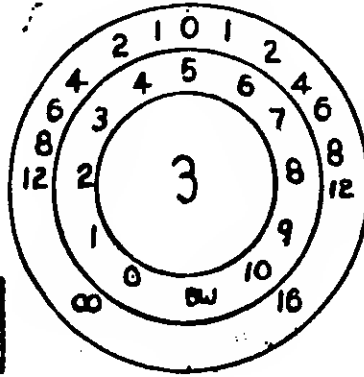
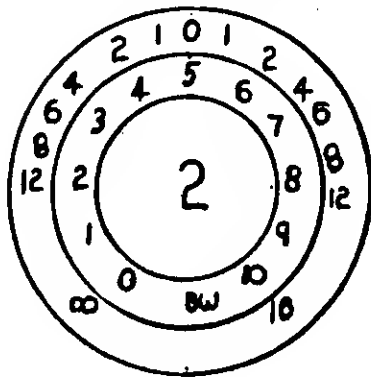
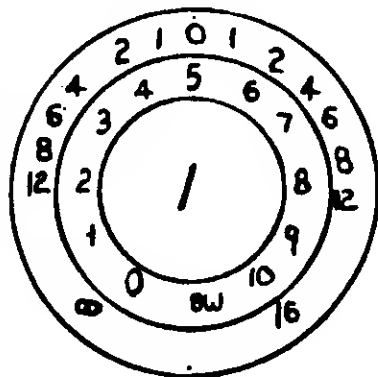
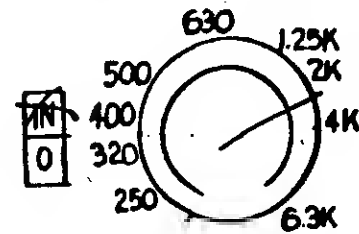
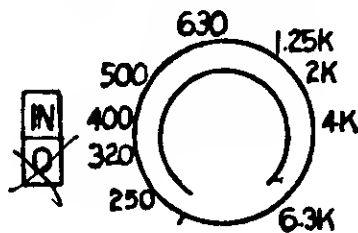
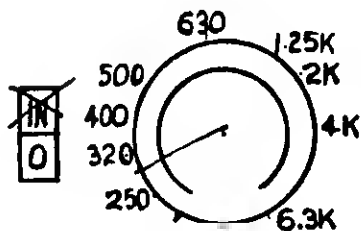
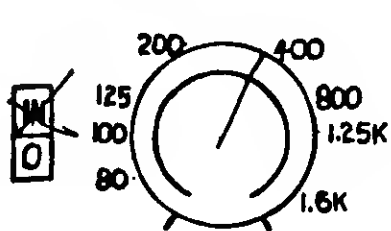
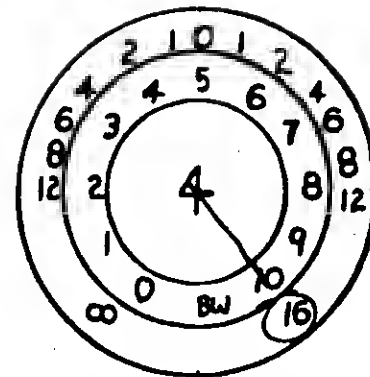
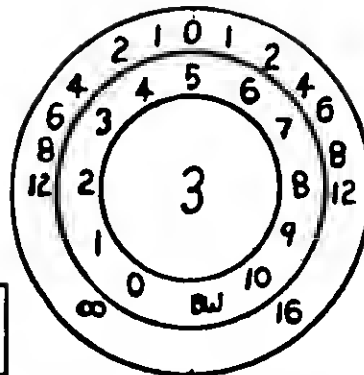
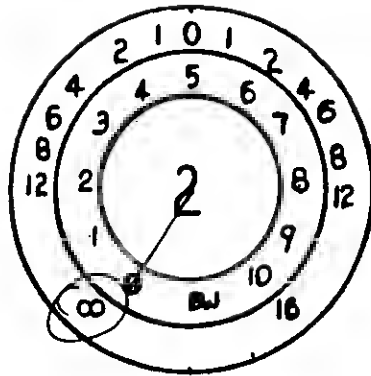
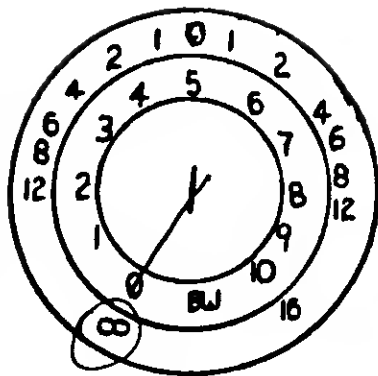
ALSO SUBMITTED:

One copy of a transcription

Model No ORBAN 622B

Lab No

50624030 E Q2



Worksheet

Q1 One Scotch 10½" reel of 1" wide magnetic tape mailed in part "8/31/83" on a white label. In a Magrasynre/Moviola cardboard tape box. Rev. from Bob Hale, FAA, on 8/26/85.

Q1 channel 4 ~ 1433:55 → 1434:37

1. Direct copy made at 7½ ips, full 7" reel, 1.5 mil by playing back on a Magrasynre/Moviola TP-2020, 20 Channel logger.
2. Speed off 170/180.
3. Very low-level voice at very beg. of portion; below system noise floor; a few tones.
4. Quality very poor - only guesses could be made as to words spoken. Maybe a 7-ing word used.
5. No pertinent info. noted on other channels that could account for spoken words.
6. DRC's did not improve intelligibility.

Enhanced copies (2) of pertinent area only

1. Played back direct copy on a Kerox PR99, speed corrected.
2. Then 2 Itlaco 4211 Electronic Filters $L=200$
 $H=4K$
3. Then a 622B Orban Parametric Equalizer, see attached sheet
4. Recorded on a Kerox B710MK11, 1½ ips, both channels, Maxell C30
5. Same as #4
- 6 → 9 Same as #4
10. Recorded on a Kerox PR99, full, 7½ ips, 7" reel, 1.5 mil (retained by FBI)

Requested by
J. Van Flaten
on 9/5/85

Very slight improvement due to ^{already} very low recording level

One enhanced copy each to Bob Hale & Ms. Flaten on 8/26/85.

Q1 to Bob Hale (at my home) on evening of 8/26/85.

Four enhanced copies to Ms. Flaten on 9/5/85.

Made direct copies at follows:

1. Pertinent area of channels 3, 4, 13 - 7½ ips, full 7" reel, 1.5 mil
2. Pertinent area of channels 3 & 4 and 4 & 13 on separate reels - 7½ ips, full, 7" reel, 1.5 mil

50826030 E QZ

Worksheet

Channel 4 on Q1 at 1437:17 on transcript is low level duplication of high-level signal on channel 3 of Q1 occurring simultaneously (cross-talk). Considerable ^{very} low-level voice inf. heard between 1434:17 and 1434:37, which is not cross-talk from channel 3.

50826030 E QZ

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1350:09
KE007 Anchorage, Korean Air zero zero seven

D 2/3
KE007 Korean Air zero zero seven, go ahead

KE007 Zero zero seven, Bethel at four niner, Flight Level three one zero, estimate NABIE at one four three zero. Two one niner decimal zero, minus four niner, two niner five diagonal two five

D 2/3 Korean Air zero zero seven, roger, report NABIE to Anchorage on one two seven eight

1350:33
KE007 One two seven eight, roger

1350:42
D 10/11 Go ahead

D 2/3 Korean Air zero zero seven says NABIE one four three zero. TJ

D 10/11 KD

COMMUNICATIONS WITH OR CONCERNING OTHER A

TIME +
SOURCE

CONTENT

1340:06
D 2/3 Roger

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1432:22
D 10/11 Korean Air zero zero seven,
Anchorage Center

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

1401:02
KE015 Anchorage Center, Korean Air zero one five, position

D 2/3 Korean Air zero one five, go ahead

KE015 Roger, passing Bethel at one four zero one, Flight Level three three zero, estimating NABIE at - - - NABIE at one four four one. Fuel remaining two two three decimal zero, minus five six, spot three one zero diagonal two #, go ahead

D 2/3 Korean zero one five, report NABIE to Anchorage one two seven eight

1401:39
KE015 Roger, one two seven eight. Good morning

1401:41
D 2/3 One four four one NABIE estimate, Korean Air zero one five

D 10/11 KD

D 2/3 TJ

COMMUNICATIONS WITH OR CONCERNING KE007

<u>TIME + SOURCE</u>	<u>CONTENT</u>
1432:33 D 10/11	Korean Air zero zero seven, Anchorage Center
1433:37 D 10/11	Korean Air zero zero seven, Anchorage Center
1433:45 UNK	* * *
1433:53 D 10/11	Korean Air zero zero seven, Anchorage Center, how do you read?
1434:17 UNK KE015	* * * * * ← * ((Oriental language))
1434:37 D 10/11	Korean Air zero zero seven, Anchorage Center
1434:50 UNK KE015	* * * * * ((Oriental language))
1434:54 UNK KE015	* * * ((Oriental language))
1434:02 KE015	Anchorage, Korean Air zero one five

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

<u>TIME + SOURCE</u>	<u>CONTENT</u>
----------------------	----------------

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1435:07
D 10/11

Korean Air zero one five, Anchorage Center, go ahead

1435:11
KE015

Roger, Korean Air zero one five, ah, we are forward report (that we have), ah, zero zero seven position NABIE one four three two, Flight Level three one zero, estimating NEEVA one five four nine. Fuel remaining two zero zero decimal zero, minus four nine, spot two five zero diagonal six zero, go ahead

1435:39
D 10/11

Korean Air zero one five, roger, ah, have Korean Air zero zero seven report NEEVA to Anchorage one two eight decimal two

1435:49
KE015

Roger, NEEVA one two eight decimal two. Good day

1435:56
KE015

Zero zero seven

1436:15
E459

Four five nine

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1436:16
D 10/11 Four five nine, Center Channel
eleven reference, ah, Korean Air
zero zero seven

1436:20
E459 Go ahead

1436:21
D 10/11 Ah, you can recancel it

1436:23
E459 GB

D 10/11 KD

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

1437:30
PA800 Anchorage Center, Clipper eight
hundred, over

1437:43
AF675 Anchorage Air France six seventy-
five, good morning

1437:50
D 10/11 Air France six seven five,
Anchorage Center, Good morning. Go
ahead

AF675 * * we're estimating over at Shemya
five eight, PICUM next, and we'd
like to climb up three seven zero
whenever, at Shemya, if available

COMMUNICATIONS WITH OIL CONCERNING KE007

TIME +
SOURCE

CONTENT

COMMUNICATIONS WITH OIL CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

PA800 --chorage Center, Clipper eight hundred on one twenty-seven point eight, over

D 10/11 Clipper right hundred, stand by. Air France six seven five, roger, squawk six five two seven. You can expect higher at Shemya

AF675 Six five, ah, ah, two seven, is that correct?

D 10/11 For Air France six seven five, affirmative, sir

1438:28
D 10/11 Clipper eight hundred, Anchorage Center, go ahead

PA800 Roger, Anchorage, Clipper eight hundred was by St. Paul (at, oh) three seven, we're maintaining Flight Level three seven zero, estimating Cape Newenham at one five zero seven, Dillingham next

D 10/11 Clipper eight hundred, roger, report Cape Newenham to Anchorage Center one two four point eight

1438:53
PA800 Cape Newenham one twenty-four decimal eight

COMMUNICATIONS WITH OR CONCERNING KE007

+
CE

CONTENT

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

UNK

* *

D 10/11

Clipper eight hundred ((pause))
Cape Newenham at one five zero
seven, Flight Level three seven
zero. KD

1440:15

D 10/11

Air France six seven five, verify
you do not want to climb to higher
until Shemya, sir?

AF675

We'd like to climb to three seven
zero just past Shemya, sir, when
passing Shemya

D 10/11

Air France six seven five, roger

1443:08

KE015

Anchorage Center, Korean Air zero
one five, position

1443:12

D 10/11

Korean Air zero one five, Anchorage
Center, go ahead

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1443:58
KE007

Anchorage Radio, Korean Air zero zero seven

1444:03
IFSS

Korean Air zero zero seven, Anchorage

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

1443:15
KE015

Roger, Korean Air zero one five, position NABIE one four four three, Flight Level three three zero, estimate, ah, NEEVA one six zero four, fuel remaining two zero three decimal five, minus five two, spot two four five diagonal five zero. Go ahead

1443:40
D 10/11

Korean Air zero one five, roger, report NEEVA Anchorage Center one two eight decimal two

1443:46
KE015

Roger, at, ah, NEEVA one two eight decimal two

1443:55
D 10/11

Go ahead

D 2/3

* * (Eastlett) whatever his name is

D 10/11

(Easy cook) * * *

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1444:09
KE007

Roger, Korean Air zero zero seven, position at NABIE at one four three two, ah, we're at three one zero, estimating NEEVA one five five three. Remaining fuel two zero zero decimal zero. Minus four niner, wind two five zero diagonal five, ah, diagonal six five, ah SELCAL code Golf Kilo Foxtrot Hotel. Requesting level three three zero when available.

1444:51
IFSS

Korean zero zero seven, Anchorage, understand NABIE one four three two, three one zero, NEEVA one five five three, is that correct?

1445:02
KE007

Affirmative, Korean Air zero zero seven. That's affirmative

1445:06
IFSS

Korean zero zero seven, Anchorage, roger progress. Stand by for SEL check

1445:28
KE007

Korean Air zero zero seven, SELCAL okay, thank you

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

D 2/3 Yeah

D 10/11 Yeah

D 2/3 Okay, he's Evergreen eight eleven

D 10/11 Evergreen eight eleven

D 2/3 T J

D 10/11 What's that, E?

D 2/3 E E, yeah

D 10/11 E E eight eleven

D 2/3 Right

D 2/3 TJ

D 10/11 KD

COMMUNICATIONS WITH OR CONCERNING KE007

TIME +
SOURCE

CONTENT

1445:32
IFSS

Korean zero zero seven, Anchorage, roger, and, uh, contact Anchorage Center now one two seven decimal eight, make your request with them

1445:42
KE007

Roger, it's one two seven eight, roger

COMMUNICATIONS WITH OR CONCERNING OTHER AIRCRAFT

TIME +
SOURCE

CONTENT

1457:00
UNK

* * United one fifty is level at Flight Level three nine zero

D 10/11 All right

UNK (*EM)

1457:15
D 10/11

Anchorage Center, Sector ten and eleven

TYO CNTR Tokyo, request Flight Level three four zero for Japan Air four two. I have

D 10/11 Okay, Tokyo, say AHEAD time, sir. I have no strips

UNITED STATES GOVERNMENT

UNITED STATES DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION

Memorandum

(Type or hand print.)

- Assoc. Dir. _____
- Dep. AD Adm. _____
- Dep. AD Inv. _____
- Asst. Dir.:
- Adm. Servs. _____
- Crim. Inv. _____
- Ident. _____
- Intell. _____
- Laboratory _____
- Legal Coun. _____
- Plan. & Insp. _____
- Rec. Mgnt. _____
- Tech. Servs. _____
- Training _____
- Public Affs. Off. _____
- Telephone Rm. _____
- Director's Sec'y _____

TO : Section Chief
Data Processing Section
Technical Services Division

FROM : SA [REDACTED]

DATE: 9/23/85

COMMITMENT REPORT

Section Engineering

SUBJECT: KOREAN AIR LINES DISASTER
SEPTEMBER 1, 1983
ALLEGED MISCONDUCT OF AIR
TRAFFIC CONTROLLERS

Examiner/s	[REDACTED]	Bufile #	95-
Symbol/a	02 [REDACTED]	Court/Agency	Dept of Justice
Man Workdays	3 3	City & State	Washington, D.C.
Date/s	9/20/85 9/20/85		
Testified	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Reason for Appearing in Court but not Testifying: (Circle one)

- 01. Guilty Plea
- 02. Case Continued
- 03. Case Dismissed
- 04. Stipulation
- 05. Testimony not Needed
- 06. Mistrial

07. Gave assistance to get in cross-examination.

Miscellaneous Commitments: (MC) (Other than Court Appearances - Circle One)

- 01. Lecture/Training (Other)
- 02. Training (Self)
- 03. Speech
- 04. Pretrial Conference
- 05. Field Examination of Evidence
- 06. Research/Data Acquisition
- 07. _____
- 08. Investigative Support
- 09. Communication Support
- 10. Conference/Meeting

Results of ~~XXXX~~ Deposition

Prosecuting Attorney Mark Dombroff Defense Attorney _____

Details/Unusual or Interesting Circumstances:

Employees appeared to assist in cross examination of Frank McDermott who claims to hear understandable background conversation in captioned matter that reflects that air traffic control personnel failed to warn the airplane that it was off course. McDermott's background and credibility were severely attacked. His testimony contradicts FBI analysis of the matter.

2- [REDACTED]



~~INTERNAL SECURITY~~

~~SECRET~~

1 - [REDACTED]

b7c

Assistant Attorney General
Civil Division

May 28, 1986

Director, FBI

[KOREAN AIR LINES FLIGHT 007] *Tu*

10-7-87
Classified by *SPRAT/...*
Declassify on: OADR
#274,982

b1

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
EXCEPT WHERE SHOWN
OTHERWISE

This communication is classified "Secret" in its entirety.

Reference your letter dated October 4, 1985, and our response dated October 16, 1985.

The records of the Federal Bureau of Investigation (FBI) on the following authors and their articles which allege U.S. spy or conspiracy motives have been reviewed with the following results:

There was no record identifiable with [REDACTED]

FBI files revealed no derogatory information on [REDACTED] who was previously [REDACTED]

[REDACTED]

FBI files revealed that [REDACTED]

[REDACTED]

DE-211 149-12981-33]u

b7c

The main source used by [REDACTED] for his article was a former [REDACTED]

[REDACTED]

b7c
b7D

- Exec AD Adm.
- Exec AD Inv.
- Exec AD LES
- Asst. Dir.:
- Adm. Servs.
- Crim. Inv.
- Ident.
- Insp.
- Intell.
- Lab.
- Legal Coun.
- Off. Cong. & Public Affs.
- Rec. Mgnt.
- Tech. Servs.
- Training
- Telephone Rm.
- Director's Sec'y

MAIL ROOM

SEE NOTE PAGE THREE

~~SECRET~~
Classified by: G-3
Declassify on: OADR

ALL INFORMATION ON THIS PAGE IS UNCLASSIFIED UNLESS INDICATED OTHERWISE

~~SECRET~~

Assistant Attorney General
Civil Division

FBI files revealed references to one [REDACTED]

[REDACTED]

b7c

It could not be determined if the [REDACTED] at [REDACTED]
[REDACTED] is identical to the author of the article [REDACTED]

b7c

FBI files indicate one Oliver Edmund Clubb, born 1901, was a Foreign Service Officer at the U.S. Department of State from about 1928 to 1952. He left the Foreign Service and became a visiting professor at Columbia, Harvard, Yale and other universities, after allegations that in 1932, he had delivered a "sealed envelope" to the offices of the CPUSA journal, "New Masses". The allegations were converted to formal charges and Clubb was suspended from active duty. He was subsequently cleared of security and loyalty charges, after which he retired.

[REDACTED]

b1

BEST COPY AVAILABLE

~~SECRET~~
2-

ALL INFORMATION ON THIS
PAGE IS CLASSIFIED S
UNLESS INDICATED OTHERWISE

~~SECRET~~

~~Acting~~ Assistant Attorney General
Civil Division

NOTE:

The Department of Justice by letter 10/4/85, requested any examples of disinformation connected with KAL Flight 007. That information was furnished by FBI letter 10/15/85.

This provides results of file reviews on authors whose articles allege U.S. spy or conspiracy motives regarding KAL Flight 007.

Some references have only recently been available for review.



b7c

Desk

WHS

GAULT

BEST COPY AVAILABLE

~~SECRET~~
-3-

~~SECRET~~

~~ALL INFORMATION ON THIS PAGE IS CLASSIFIED UNLESS INDICATED OTHERWISE~~ *3*

XXXXXX
XXXXXX
XXXXXX

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- Deleted under exemption(s) b1 b7c b7D with no segregable material available for release to you.
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XXXXXXXXXXXXXXXXXXXXX

XXXXXX
XXXXXX
XXXXXX

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XXXXXX
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