

**AIRCRAFT
ACCIDENT INVESTIGATION BOARD
REPORT**

**US ARMY UH-60
BLACK HAWK HELICOPTERS
87-26000 AND 88-26060**

VOLUME 10

TAB U

**AIRCRAFT
ACCIDENT INVESTIGATION BOARD
REPORT**

COPY

15

OF

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U-3 E-3B AWACS

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U-3a

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SUBJECT: [REDACTED] *
 PILOT: [REDACTED]
 CREW: [REDACTED]
 F91A F91A: EFF RTE ROSS/ACHV ALERT CAYE ERCS TOTAL ERCS RAD

REMARKS: MTT #2 MAN BRING UP VACCUM

MOD 01
 ECH TAKEOFF ECH LANDING ACT TAKEOFF ACT LANDING
 13 APR 94 2036 14 APR 94 1140 13.2 4737
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK NOC NFL: NFL: FAULT CODE:
 1 000 000 MAINT EVT ID: 941042068 CAUSE: ENG SHUTDOWN: WHERE: LTAG
 (FMOD) MTT #2 WILL NOT BRING UP VACCUM

CAP BLK NOC NFL: NFL: FAULT CODE:
 1 000 000 MAINT EVT ID: 941042067 CAUSE: ENG SHUTDOWN: WHERE: LTAG
 (FMOD) #2 HAVE SIREN HAD SOFT BYTE FAILURE ON CLIMBOUT AND 2
 INCIDENT

CAP BLK NOC NFL: NFL: FAULT CODE:
 2 043 840 MAINT EVT ID: 941042068 CAUSE: ENG SHUTDOWN: WHERE:
 (FMOD) NAV ADS PANEL HAS INTERMITTENT VOLUME SURGES

CAP BLK NOC NFL: NFL: FAULT CODE:
 2 028 200 MAINT EVT ID: 941042066 CAUSE: ENG SHUTDOWN: WHERE:
 (FMOD) #2 ENG THROTTLE 1 1/2 ANDS AFT IN FLIGHT

CAP BLK NOC NFL: NFL: FAULT CODE:
 2 035 200 MAINT EVT ID: 941042068 CAUSE: 1 ENG SHUTDOWN: WHERE:
 (FMOD) #2 ENG COMPRESSOR STALLED WHEN DESCENDING FROM 32 TO
 25 THOU AND WHEN FF WAS REDUCED TO 2000 RPM

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	2	200	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	400	FUEL SYSTEM	035	1	470	OXYGEN
036	1	454	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	310	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	1	450	IFF ANT	045	1	638	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	694	TADIL-A
048	1	690	SECURE COMM	049	1	695	JTIDS/VODDER
050	1	370	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	1	510	SRV RADAR
054	1	570	CONSOLES	055	2	320	COMPUTERS/DEP
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

CERTIFICATE

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

19 May 94
Dye

WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

* Control Witness to
Gordon E
Wilcox

AIRCRAFT ACCE: DETAILED DEBRIEF SORTIE REPORT 28 APR 94 11:17:00

SORTIE# 735 SORTIE DATE 941001 SORTIE OF DAY 1 MISSION UPGOBE LOS STAT 1 SYG 610 EFF/CAUSE R
 PILOT CAPT. DALEY CREW DEBRIEFER WHITNEY PATRICK L ENG SHUT TIME TURNAROUND 5ALT
 FSA FSASA: OFF RTE POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

HF#2 HAS A BAD AMB#72

MOD 01 SCH TAKEOFF 11 APR 94 0907 SCH LANDING 12 APR 94 0911 DUR 10.1 ATRP
 LAUNCH BASE: LTAE RECOVERY BASE: LTAE

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 1 040 610 MAINT EVT ID: 741002065 CAUSE: ENG SHUTDOWN: WHERE: LTAE
 (FMC) HF #2 HAS A BAD COUPLER CONTROL.

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 040 610 MAINT EVT ID: 741002066 CAUSE: ENG SHUTDOWN: WHERE: LTAE
 (FMC) HF#2 HAS A BAD PR-4992 IN REC BACK.

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 044 655 MAINT EVT ID: 741022067 CAUSE: ENG SHUTDOWN: WHERE: LTAE
 (FMC) IFF SYG INTERFERES WITH TRANSPONDER : AIMS CONSTANTLY INTERROGATED ON ALL MODES

SYSTEM CAPABILITY CODES

BLK#	CAP	SYG	SYSTEM/SUBSYSTEM	BLK#	CAP	SYG	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	2	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	1	640	AUDIO DIST SYSTEM
044	2	655	IFF ANT	045	1	656	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69E	SECURE COMM	049	1	69B	JTIDS/VOCODER
050	1	69H	ESB	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	1	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

ASN 94118 111700 161700 PROCESSED.

VERSION DATE: 071393

CERTIFICATE

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12 Aug 94
Date

William L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

SORTIE# 733 SORTIE DATE 94037 SORTIE OF DAY 1 MISSION OPS006F LDI STAT 2 SYS 810 EFF CAUSE E
 PILOT MAYO MAG CREW DEBRIEFER KARL WILLIAM P ENG UNIT TYPE TURNAROUND 3ALT
 FSA FSABA: EFF PTE PSS/ACHV ALERT DAYS EROF TOTAL EROF RAO

REMARKS: [FMCD] BEAM STEERING DRIVER 25 IS BAD
 MOD 01 SCH TAKEOFF 27 MAR 94 2131 ACT TAKEOFF 25 MAR 94 0548 DUF 11.3 AUC A73F
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 053 810 MAINT EVT ID: 940872065 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] BEAM STEERING DRIVER 25 IS BAD

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 043 640 MAINT EVT ID: 940872066 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] ST 22 AND 23 FOOT MIC INDF

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 043 640 MAINT EVT ID: 940872067 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] ST 04 MAP CAUSES FAILURE ALARM ON PDF

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	570	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	1	65D	IFF ANT	045	1	650	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	67E	SECURE COMM	049	1	690	GTIDS/VOCODER
050	1	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	2	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

CERTIFICATE

I, the undersigned, certify that the aircraft described herein is in compliance with the applicable Federal Aviation Regulations and is airworthy for the intended use. This certificate is valid only for the aircraft and engine described herein and is void if the aircraft is not maintained in accordance with the applicable Federal Aviation Regulations.

12 May 94

[Signature]
 Captain, USAF
 12 May 1994

SORTIE# 735 SORTIE DATE 94034 SORTIE OF DAY 1 MISSION DPO067 LDB STAT 2 EYE 810 EFF/CAUSE E
 PILOT BONNER CAPT CREW DEBRIEFER KARL WILLIAM F ENG SHUT TIME TURNAROUND 6ALT
 FSA FSABA; EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

[FMCD] ROTD CMP 1 FAILURE
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUR AUC
 01 24 MAR 94 2147 25 MAR 94 0734 9.8 A73
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK WJC MFL: MFL: FAULT CODE:
 2 053 810 MAINT EVT ID: 940842065 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] ROTD CMP 1 FAILS CONSTANTLY FOR DATA COMM

CAP BLK WJC MFL: MFL: FAULT CODE:
 2 042 630 MAINT EVT ID: 940842066 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] FLT DECK UHF RADIO TOO LOUD

CAP BLK WJC MFL: MFL: FAULT CODE:
 2 028 230 MAINT EVT ID: 940842067 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] #2 6 INCH BLEED VALVE SEEMS TO WORK ONLY FULL OPEN OR FULL CLOSED

CAP BLK WJC MFL: MFL: FAULT CODE:
 2 050 69H MAINT EVT ID: 940842068 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] ESS AP101C WATCHDOG TIMER W/N ACCEPT SWITCHES

CAP BLK WJC MFL: MFL: FAULT CODE:
 2 054 82H MAINT EVT ID: 940842069 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] BAD HVPS ST 10 PICTURE LOSTS FOCUS AND FADES

CAP BLK WJC MFL: MFL: FAULT CODE:
 2 053 810 MAINT EVT ID: 940842070 CAUSE: ENG SHUTDOWN: WHERE:
 [FMCD] DESSICANT CRYSTALS NEED SERVICED

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	2	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	2	630	UHF COMM SYSTEM	043	1	640	AUDIO DIST SYSTEM
044	1	65D	IFF ANT	045	1	656	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69E	SECURE COMM	049	1	69E	JTIDS/VOCODER
050	2	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	2	810	SURV RADAR
054	2	82H	CONSOLES	055	1	820	COMPUTERS/DSK
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

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12 May 94
 Date

WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

SORTIE#	SORTIE DATE	SORTIE OF DAY	MISSION	LOS STAT	SYS	EFF/CAUSE
73E	94061	1	OPC064	2	410	E
PILOT	CREW	DEBRIEFER	ENG SHUT TIME	TURNAROUND	SALT	
BONNER CAPT		KARL WILLIAM P				
FSA	FSAGA: EFF	PTS	POSS/ACHV	ALERT DAYS	ERCS TOTAL	ERCS RAD

[FMCD] #4 BLEED VALVE INOP

MOD	SCH TAKEOFF	SCH LANDING	ACT TAKEOFF	ACT LANDING	DUR	AUC
01			21 MAR 94 2142	22 MAR 94 0136	3.9	A73P
LAUNCH BASE:	LTAG		RECOVERY BASE:	LTAG		

=====
 CAP BLK WJC MFL: MFL: FAULT CODE:
 2 030 410 MAINT EVT ID: 940812065 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] #4 BLEED VALVE INOP

=====
 CAP BLK WJC MFL: MFL: FAULT CODE:
 2 042 630 MAINT EVT ID: 940812066 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] SATCOM SYS #1 SIM BAD

=====
 CAP BLK WJC MFL: MFL: FAULT CODE:
 2 045 640 MAINT EVT ID: 940812067 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] COPILOTS ADS PNL CALL SELECT HAS BUSY SIGNAL

=====
 CAP BLK WJC MFL: MFL: FAULT CODE:
 2 052 720 MAINT EVT ID: 940812068 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] NAV'S WX RDR SCREEN PAINTS RETURN ONLY IN OUTER PART O
 F SCOPE

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	2	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	2	630	UHF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	1	650	IFF ANT	045	1	656	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69E	SECURE COMM	049	1	69B	JTIDS/VOCODER
050	1	69H	ESS	051	1	710	RADIO NAV
052	2	720	RADAR NAV	053	1	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

12 May 94
 will

W. FH

SORTIE# 735 SORTIE DATE 94071 SORTIE OF DAY 1 MISSION DROGNET LOG STAT 2 SYS 410 EFF/CAUSE E
 PILOT CREW DEBRIEFER END SHUT TIME TURNAROUND SALT
 PEBBLES CAPT KARL WILLIAM P
 FSA FSABA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

REMARKS: [FMCD] #3 ENG FIREWALL CLOSED LITE W/N COME ON
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DLR AUC
 01 11 MAR 94 2205 12 MAR 94 0622 3.3 A73P
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 030 410 MAINT EVT ID: 940712065 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] #3 ENG FIREWALL CLOSED LITE W/N TEST OR COME ON WHEN VALVE IS CLOSED.

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 053 810 MAINT EVT ID: 940712066 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] TST 24 FLR IN A2 FOR TYPE 3 FOR UNDER COMPRESSION

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 043 640 MAINT EVT ID: 940712067 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] MAP POS 6 NET W/N ACTIVATE

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 025 120 MAINT EVT ID: 940712068 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] CLAMP ON PILOTS INST PANEL IS BROKEN

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 043 640 MAINT EVT ID: 940712069 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] COMM CORD POS 7 BAD

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 025 120 MAINT EVT ID: 940712070 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] FREEZER IS INOP

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 028 230 MAINT EVT ID: 940712071 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] #2 ENG LOSS 3.2 GALS OF OIL WHILE IN FLT

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	2	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	2	230	ENGINES	029	1	240	AUX POWER
030	2	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	530	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	1	650	IFF ANT	045	1	650	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	67A	TADIL-A
048	1	67B	SECURE COMM	049	1	67B	JTTIS/NOOBER
050	1	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	2	810	SURV RADAR
054	1	82N	CONSOLES	055	1	820	COMPUTERS/DSB
056	1	810	EMERGENCY EQUIP	057	1	90A	OXYGEN MASK

CERTIFICATE

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12 May 94
 Date

W. L. Harris
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

AIRCRAFT 40801 DETAILED DESRIER 80310 READ 05/07/94 10:48:00

SORTIE# 735 SORTIE DATE 94061 SORTIE OF DAY 1 MISSION CPC054 LBS STAT 2 SYS B10 RTP/CAUSE E
 PILOT CREW DESRIERER ENG SHUT TIME TURNAROUND SALT
 REEBLES CAPT KARL WILLIAM P
 F84 FBABA: EFF RTS P088/ADHV ALERT DAYS EROS TOTAL EROS RAD

[FMCD] ROTO CMP FLR 73 MAIN STEERING DRIVER FOR STICK 21 IS BAD

MOD 01 SCH TAKEOFF SCH LANDING ACT TAKEOFF 05 MAR 94 2056 ACT LANDING 09 MAR 94 0648 DUR 9.9 AUC A73F
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 053 810 MAINT EVT ID: 940602065 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] ROTO CMP FLR 73 MAIN BEAM STEERING DRIVER FOR STICK 2.
 1 IS BAD

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 000 76A MAINT EVT ID: 940682066 CAUSE: ENG SHTDWN: WHERE:
 [FMCD] SOFT FAULT #2 HAVE SIREN

SYSTEM CAPABILITY CODES							
BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	1	640	AUDIO DIST SYSTEM
044	1	65D	IFF ANT	045	1	65G	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69E	SECURE COMM	049	1	69G	JTIDS/VOCODER
050	1	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	2	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

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18 May 94 *W. L. Harris*
 Date WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

AIRCRAFT HOSS: DETAILED DESCRIPTION SORTIE REPORT 22/APR/94 10:48:00

SORTIE#	SORTIE DATE	SORTIE OF DAY	MISSION	LINE FRAC	SYS	OFF/DALRE
735	94066	1	OP0052	2	310	F
PILOT	COCK	DEBRIEFER	ENG SHUT TIME		TURNAROUND	SALT
SCHMIDT CAPT,	HOSIER DONALD R					
FSA	FSAFA: EFF	PTS	POSB/ADRV	ALERT DAYS	EROS TOTAL	EROS PAD

IFM003 LD XMTR CHF 6 & DRIVER FAILURE PREVENTS ETBY.

NOI	SOI TAKEOFF	SOI LANDING	ACT TAKEOFF	ACT LANDING	DUR	AUC
01			07 MAR 94 0008	07 MAR 94 1038	10.3	4736
LAUNCH BASE: LTAD			RECOVERY BASE: LTAD			

CAP	BLK	WUC	NFL:	NFL:	FAULT CODE:	WHERE:
2	042	630	MAINT EVT ID: 940662067	CAUSE:	ENG SHUTDOWN	
RF LD NAD CONFIRMED BY SWAP						
2	050	510	MAINT EVT ID: 940662068	CAUSE:	ENG SHUTDOWN	
IFM003 LD XMTR CHF 6 & DRIVER FAILURE PREVENTS ETBY						
2	031	420	MAINT EVT ID: 940662065	CAUSE:	ENG SHUTDOWN	
IFM01 #4 GEN TRIPPED OFF LINE.						
2	007	510	MAINT EVT ID: 940662066	CAUSE:	ENG SHUTDOWN	
REC 1 IFM03 PILOTS HEADINGS 4 DEB OFF						
2	032	440	MAINT EVT ID: 940662067	CAUSE:	ENG SHUTDOWN	
IFM01 LT RETRACTABLE DOES NOT FULLY EXTEND						

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	2	420	ELECTRICS
032	2	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	2	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	2	630	UHF COMM SYSTEM	043	1	640	AUDIO DIST SYSTEM
044	1	650	IFF ANT	045	1	650	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69B	REDUCE COMM	049	1	69B	JTIDS/MODEM
050	1	69H	USB	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	2	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DEP
056	1	910	EMERGENCY EQUIP	057	1	78A	OXYGEN MASK

CERTIFICATE

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

12 May 94
Date

WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

AIRCRAFT A0351 DETAILED DEBRIEF SORTIE RECAP 28/APR/94 10:46:00

SORTIE# 736 SORTIE DATE 94062 SORTIE OF DAY 1 MISSION CFC049A LDG STAT 2 SYS 65D EFF/CAUSE E

PILOT SCHMIDT CAPT. CREW DEBRIEFER HOSIER DONALD R ENG SHUT TIME TURNAROUND SALT

FSA FSAGA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

[FMCD] KIR #1 WILL NOT COME ON LINE.

MOD SDH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUR AUC

01 03 MAR 94 0235 03 MAR 94 0505 2.5 A73P

LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK WUC MFL: MFL: FAULT CODE:

2 044 65D MAINT EVT ID: 940622065 CAUSE: ENG SHTDWN: WHERE:

[FMCD] KIR #1 WILL NOT COME ON LINE.

CAP BLK WUC MFL: MFL: FAULT CODE:

2 051 710 MAINT EVT ID: 940622066 CAUSE: ENG SHTDWN: WHERE:

[FMCD] PILOTS AND COPILOTS HSI WERE +5 DEGREES OFF OF ONE ANOTHER.

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	1	640	AUDIO DIST SYSTEM
044	2	65D	IFF ANT	045	1	65G	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	67E	SECURE COMM	049	1	69G	JTIDS/VOCODER
050	1	69H	ESS	051	2	710	RADIO NAV
052	1	720	RADAR NAV	053	1	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

CERTIFICATE

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

12 May 94
Date

W. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

AIRCRAFT A0351 DETAILED DEBRIEF SORTIE RECAP 26/APR/94 11:07:00

SORTIE# SORTIE DATE SORTIE OF DAY MISSION LDS STAT SYS EFF/CAUSE
 -735 94059 1 BPC047 2 51D E
 PILOT CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
 KOTLOWSKI CAPT KARL WILLIAM P
 FSA FSAGA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

[FMCI] PILOTS HSI HEADING BUG 10 DEG OFF
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUR AUC
 01 28 FEB 94 2206 01 MAR 94 0620 8.2 A73P
 LAUNCH BASE: LTAB RECOVERY BASE: LTAB

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 037 510 MAINT EVT ID: 940592065 CAUSE: ENG SHUTDOWN: WHERE: LTAB
 [FMCI] PILOTS HSI HEADING BUG 10 DEG OFF

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 044 65D MAINT EVT ID: 940592066 CAUSE: ENG SHUTDOWN: WHERE: LTAB
 [FMCI] NO MODE 4 REPLIES FROM OUTER ACFT WHEN KIR #1 IS ON L
 INE

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	2	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	1	640	AUDIO DIST SYSTEM
044	2	65D	IFF ANT	045	1	656	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69E	SECURE COMM	049	1	696	JTIDS/VOCODER
050	1	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	1	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

ASN 94118 110735 160735 PROCESSED.

VERSION DATE: 071393

CERTIFICATE

12 May 94
 Date
 [Signature]
 [Stamp]

CAP	BLK	WUC	MFL:	MFL:	FAULT CODE:	WHERE:
2	031	420	MAINT EVT ID: 940532065	CAUSE:	ENG SHUTDOWN	
(FMC) FLT ENG AD VOLT METAR STUCK AT 110 VOLTS						
2	030	410	MAINT EVT ID: 940532066	CAUSE:	ENG SHUTDOWN	
(FMC) LGS RESISTIVITY AT REG/ON AT TURN ON						
2	037	510	MAINT EVT ID: 940532067	CAUSE:	ENG SHUTDOWN	
(FMC) AIRSPEED MACH WARNING SYS ACTIVATES AT .75						
2	025	120	MAINT EVT ID: 940532068	CAUSE:	ENG SHUTDOWN	
(FMC) NAV ET RT ARMREST WILL NOT LOCK DOWN IN LEVEL POSITION						
2	030	410	MAINT EVT ID: 940532069	CAUSE:	ENG SHUTDOWN	
(FMC) SUSPECT LGS NITROGEN LEAK						
2	043	640	MAINT EVT ID: 940532070	CAUSE:	ENG SHUTDOWN	
(FMC) FOOT MIC SWITCH AT ST 17 STICKS						
2	054	824	MAINT EVT ID: 940532071	CAUSE:	ENG SHUTDOWN	
(FMC) STA 20 HAS WAVY LINES DB1M&M H3G 035						
2	055	820	MAINT EVT ID: 940532072	CAUSE:	ENG SHUTDOWN	
(FMC) RCVD WARNING LIGHT ON E-21 RACK						
2	055	820	MAINT EVT ID: 940532073	CAUSE:	ENG SHUTDOWN	
(FMC) RCVD DDC OVER HEAT ECSP VERY WARM						
2	037	510	MAINT EVT ID: 940532074	CAUSE:	ENG SHUTDOWN	
(FMC) CLOCK AT NAV STATION DOES NOT WORK						

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	2	120	CAFT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	2	410	AD AND PRESSURE	031	2	420	ELECTRICS
032	1	440	LIGHTS/SYSDEN	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	2	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	530	MAF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	1	650	IFF ANT	045	1	660	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-A
048	1	69E	SECURE COMM	049	1	690	TTDS/VOODOO
050	1	69H	RES	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	1	710	ENVY RADAR
054	2	82H	WINGLES	055	2	820	COMPUTERS/DSR
055	1	830	EMERGENCY SCUTE	057	1	83A	OXYGEN MASK

CERTIFICATE *Reduced*

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

12 May 94
Date,

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

AIRCRAFT 40331 DETAILED DEBRIEF SORTIE REDCAP 29/APR/94 11:13:00

SORTIE# SORTIE DATE SORTIE OF DAY MISSION LDB STAT SYS EFF/CAUSE
 735 94033 1 BPODAR 2 420 E
 PILOT CREW DEBRIEFER ENG SHUT TIME TURNAROUND GALT
 CAPT BABCOCK DOURM MICHAEL E
 F&A F&PA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

REMARKS: FLT ENG AC VOLT METER STUCK AT 115 VOLTS
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUR AUC
 01 22 FEB 94 2318 23 FEB 94 0717 8.0 A73P
 LAUNCH BASE: LTAB RECOVERY BASE: LTAB

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 031 420 MAINT EVT ID: 940532065 CAUSE: ENG SHTDWN: WHERE:
 (FMC) FLT ENG AC VOLT METER STUCK AT 115 VOLTS

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 030 410 MAINT EVT ID: 940532066 CAUSE: ENG SHTDWN: WHERE:
 (FMC) LDB RESISTIVITY AT NEG/DM AT TURN ON

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 037 510 MAINT EVT ID: 940532067 CAUSE: ENG SHTDWN: WHERE:
 (FMC) AIRSPEED MACH WARNING SYS ACTIVATES AT .75

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 025 120 MAINT EVT ID: 940532068 CAUSE: ENG SHTDWN: WHERE:
 (FMC) NAV ST RT ARMREST WILL NOT LOCK DOWN IN LEVEL POSITION

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 030 410 MAINT EVT ID: 940532069 CAUSE: ENG SHTDWN: WHERE:
 (FMC) SUSPECT LDB NITROGEN LEAK

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 043 640 MAINT EVT ID: 940532070 CAUSE: ENG SHTDWN: WHERE:
 (FMC) FOOT MIC SWITCH AT ST 17 STICKS

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 054 82H MAINT EVT ID: 940532071 CAUSE: ENG SHTDWN: WHERE:
 (FMC) STA 20 HAS WAVY LINES OBTM&M MSG 035

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 055 820 MAINT EVT ID: 940532072 CAUSE: ENG SHTDWN: WHERE:
 (FMC) RCVD WARNING LIGHT ON E-21 RACK

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 055 820 MAINT EVT ID: 940532073 CAUSE: ENG SHTDWN: WHERE:
 (FMC) RCVD DDC OVER HEAT ECSP VERY WARM

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 037 510 MAINT EVT ID: 940532074 CAUSE: ENG SHTDWN: WHERE:
 (FMC) CLOCK AT NAV STATION DOES NOT WORK

SYSTEM CAPABILITY CODES

BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	2	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINE	029	1	240	AUX POWER
030	2	410	AC WING PRESSURE	031	2	420	ELECTRICAL
032	1	430	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM

CERTIFICATE Returned

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

12 May 94
 Date

W. T. Harris
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

12

AIRCRAFT ADS: DETAILED DEBRIEF SORTIE RECAP 28/APR/94 11:13:0

SORTIE# SORTIE DATE SORTIE OF DAY MISSION LBS STWT SYS EFF/CAUSE
 735 94049 1 BRODS9 3 820 E
 PILOT CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
 CAPT KOTLOWSKI DOURM MICHAEL S
 FSA FSASA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

COULD NOT LOAD AOCF WITH CONTROLLER "A"
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUR AUC
 01 18 FEB 94 2341 19 FEB 94 0948 10.1 A73
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 3 055 820 MAINT EVT ID: 940492066 CAUSE: ENG SHTDWN: WHERE:
 (NMC) T.O. + .2 COULD NOT LOAD AOCF WITH CONTROLLER "A" ALSO
 UNABLE TO RECORD WITH IT EITHER

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 044 65D MAINT EVT ID: 940492067 CAUSE: ENG SHTDWN: WHERE:
 (FMCD) IFF POWER SUPPLY PSU #1 KICKED OFF

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 054 82H MAINT EVT ID: 940492068 CAUSE: ENG SHTDWN: WHERE:
 (FMC) T.O. + 5 ST 18 EXPANSION SWITCHES HANG CONSOLE
 INTERMITTENTLY

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 043 640 MAINT EVT ID: 940492069 CAUSE: ENG SHTDWN: WHERE:
 (FMC) PILOTS ADS I.C. CALL BUTTON STICKS AND IS DIFFICULT TO
 OPERATE

SYSTEM CAPABILITY CODES							
BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	1	410	AC AND PRESSURE	031	1	420	ELECTRICS
032	1	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	550	MAIF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	1	630	UHF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	2	65D	IFF ANT	045	1	655	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	69A	TADIL-9A
048	1	69E	SECURE COMM	049	1	695	ST/DS/MOODER
050	1	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	1	810	SURV RADAR
054	2	82H	CONSOLES	055	3	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

ASN 94115 111349 161349 PROCESSED.

VERSION DATE: 071093

CERTIFICATE *Reduced*
 I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.
 12 May 94
 Day
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

SORTIE# 733 SORTIE DATE 94045 SORTIE OF DAY 1 MISSION 83D12 LOG STAT 2 SYS 520 EFF/CAUSE E
 PILOT CAPT KOTLOWSKI CREW DEBRIEFER DOURM MICHAEL S ENG SHUT TIME TURNAROUND SALT
 FSA FSA#A: EFF FTS FOST/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

REMARKS: SERIES YAW DAMPNER WILL NOT TEST
 MOD SCH TAKEOFF ECH LANDING ACT TAKEOFF ACT LANDING DUR AUC
 01 17 FEB 94 0645 17 FEB 94 1148 3.1 AT3P
 LAUNCH BASE: EGUN RECOVERY BASE: LTAG

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 038 520 MAINT EVT ID: 940482063 CAUSE: ENG SHTDWN: WHERE:
 (FMDD) SERIES YAW DAMPNER WILL NOT TEST

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 038 520 MAINT EVT ID: 940482066 CAUSE: ENG SHTDWN: WHERE:
 (FMDD) PARALLEL YAW DAMPNER WOULD NOT TEST PROPERLY

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 042 630 MAINT EVT ID: 940482067 CAUSE: ENG SHTDWN: WHERE:
 (FMDD) RT 7 HAS BAD RCV IN SATCOM MODE

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 030 410 MAINT EVT ID: 940482068 CAUSE: ENG SHTDWN: WHERE:
 (FMC) RIGHT ISOLATION VALVE FLOW LIGHT WILL NOT GO OUT WHEN VALVE IS CLOSED

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 031 420 MAINT EVT ID: 940482069 CAUSE: ENG SHTDWN: WHERE:
 (FMC) UTILITY ROTODOME LOW PRESS LIGHT MODULE BROKEN

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 032 440 MAINT EVT ID: 940482070 CAUSE: ENG SHTDWN: WHERE:
 (FMC) PILOTS OVERHEAD SPOTLIGHT INTERMITTENT, AND VERY HOT WHEN IT WORKS

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 054 82H MAINT EVT ID: 940482071 CAUSE: ENG SHTDWN: WHERE:
 (FMC) ST 20 DISPLAY NEVER CAME UP

=====
 CAP BLK WUC MFL: MFL: FAULT CODE:
 2 053 810 MAINT EVT ID: 940482072 CAUSE: ENG SHTDWN: WHERE:
 (FMC) MAIN BEAM STEERING DRIVER FOR ANT STICK 21 WILL NOT STAT ON LINE (ROTC CMP 73)

SYSTEM CAPABILITY CODES							
BLK#	CAP	SYS	SYSTEM/SUBSYSTEM	BLK#	CAP	SYS	SYSTEM/SUBSYSTEM
024	1	110	AIRFRAME	025	1	120	CAPT AND FUSE
026	1	130	LANDING GEAR	027	1	140	FLIGHT CONTROLS
028	1	230	ENGINES	029	1	240	AUX POWER
030	2	410	AC AND PRESSURE	031	2	420	ELECTRICS
032	2	440	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	49A	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	2	520	AUTO PILOT	039	1	550	MALF ANAL SYSTEM
040	1	610	HF COMM SYSTEM	041	1	620	VHF COMM SYSTEM
042	2	630	UHF COMM SYSTEM	043	1	640	AUDIO_DIST SYSTEM
044	1	65D	IFF ANT	045	1	655	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	67A	TADIL-A...
048	1	69E	SECURE COMM	049	1	69B	JTIDS/VOCODER
050	1	69H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	2	810	SURV RADAR
054	2	82H	CONSOLES	055	1	820	COMPUTERS/DSR
056	1	910	EMERGENCY EQUIP	057	1	96A	OXYGEN MASK

ASN 94118 105643 155644 PROCESSED:

VERSION DATE: 071393

CERTIFICATE Reduced

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

W. L. Harris
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

12 May 94
 Date

TAB U-3

E-3B AWACS

U-3a Detailed Debrief Sorties Recap

U-3b TCTO 1E-3-673, 22 April 1994

U-3c TCTO L552401, 22 April 1994

U-3d Special Inspection/TCTOs due on A/C 77-0351

U-3a

U-3e DD Forms 2027, Oil Analysis Records

U-3b

TAB U-3

E-3B AWACS

U-3a Detailed Debrief Sorties Recap

U-3b TCTO 1E-3-673, 22 April 1994

U-3c TCTO L552401, 22 April 1994

U-3d Special Inspection/TCTOs due on A/C 77-0351

U-3a

U-3e DD Forms 2027, Oil Analysis Records

U-3e

U-3c

TAB
U.2.E.

TOTO DATA CODE INQUIRY FOR L552401

TOTO
NUMBER

TOTO
NARRATIVE

WGT TIME
BAL CHG
NO NO

552401

L552401 DTI FLIGHT CONTROL CABLES

OPEN TOTOS AS OF: 94 APR 22

EQP-DESIGNATOR	TOTAL APPLICABLE	TIME OF ACCOMPLISH	LEVEL OF ACCOMP	K/P/T
E0038 A	0032	090 DAYS	INTER	

SAFETY	OWNING WING	STATION CODE	RECIEVED DATE	GRD RMVL DATE
NO	0552	WWYK	94 FEB 14	94 DEC 13

EQUIP-ID	STATUS	ACCOMP BY	TOTO STATUS	EST M/HR	ACTUAL M/HR
ORG MNEMONIC: 1020					
40001	17	94 FEB 17	N/C/W TOTO READY FOR WORK	004.0	0000.0
40003	17	94 FEB 17	N/C/W TOTO READY FOR WORK	004.0	0000.0
40351	17	94 FEB 17	N/C/W TOTO READY FOR WORK	004.0	0000.0
40352	17	94 MAR 21	N/C/W TOTO READY FOR WORK	004.0	0000.0
41675	14	94 FEB 23	N/C/W EQUIP NOT AVAIL FOR WORK	004.0	0000.0

TOTO DATA CODE INQUIRY FOR L552401

TOTO
NUMBER

TOTO
NARRATIVE

WGT TIME
BAL CHG
NO NO

552401

L552401 DTI FLIGHT CONTROL CABLES

OPEN TOTOS AS OF: 94 APR 22

EQP-DESIGNATOR	TOTAL APPLICABLE	TIME OF ACCOMPLISH	LEVEL OF ACCOMP	K/P/T
E0030 A	0032	090 DAYS	INTER	

SAFETY	OWNING WING	STATION CODE	RECIEVED DATE	GRD RMVL DATE
NO	0552	WWYK	94 FEB 14	94 DEC 13

EQUIP-ID	STATUS	ACCOMP BY	TOTO STATUS	EST M/HR	ACTUAL M/HR
ORG MNEMONIC: 1020					
40004	17	94 APR 20	N/C/W TOTO READY FOR WORK	004.0	0000.0
40008	17	94 FEB 17	N/C/W TOTO READY FOR WORK	004.0	0000.0

GENERATED

TCI PROCESSED.

VERSION DATE: 100292

12 May 94

TAB U-3

E-3B AWACS

U-3a Detailed Debrief Sorties Recap

U-3b TCTO 1E-3-673, 22 April 1994

U-3c TCTO L552401, 22 April 1994

U-3d Special Inspection/TCTOs due on A/C 77-0351

U-3e DD Forms 2027, Oil Analysis Records

U-3a

U-3b

U-3c

U-3d

OPEN TCTOS AS OF: 94 APR 22

ECP-DESIGNATOR PART NUMBER E0030 A TOTAL APPLICABLE CODE TIME OF ACCOMPLISH 270 DAYS LEVEL OF ACCOMPL INTER K/P/T F

SAFETY NO OWNING WING 0552 STATION CODE WNYK RECEIVED DATE 93 JUL 06 GED RML DATE 93 APR 23

Table with columns: EQUIP-ID, STATUS, ACCOMP BY, TOTO STATUS, EST, ACTU. Includes list of equipment items with serial numbers and dates.

TOTO DATA CODE INQUIRY FOR 0178536

TOTO NUMBER 1E-3-673 TOTO NARRATIVE 1E-3-673 ECR MODULE 7167-23110-1 WITH -2 WET BAL NO TIP CHE NO

OPEN TCTOS AS OF: 94 APR 22

ECP-DESIGNATOR PART NUMBER E0030 A TOTAL APPLICABLE CODE TIME OF ACCOMPLISH 270 DAYS LEVEL OF ACCOMPL INTER K/P/T F

SAFETY NO OWNING WING 0552 STATION CODE WNYK RECEIVED DATE 93 JUL 06 GED RML DATE 93 APR 23

Table with columns: EQUIP-ID, STATUS, ACCOMP BY, TOTO STATUS, EST, ACTU. Includes list of equipment items with serial numbers and dates.

CREATED DATE

TOTI PROCESSED. ICR... CONVERSION DATE: 100292

12 May 94

Handwritten signature and stamp

JST NBR/ PART NUMBER TCTO CDE OR EQUIP ID	INST SERIAL NBR ON	DUE TIME OR DATE	JST NARRATIVE OR TCTO NARRATIVE
103011 A0351	0000000026 A0351	940316	ACFT RECORDS REVIEW DUE
103012 A0351	LOT #N/A		
103013 A0351	0000000165 A0351	940312	INSP WINDSHIELD RAIN REPELLENT
103016 A0351	LOT #N/A		
103019 A0351	0000000180 A0351	940311	INSP CYL BALL OF CONTINUITY DR OF
103020 A0351	LOT #N/A		
103025 A0351	0000000189 A0351	940311	INSP PORTABLE WATER SYSTEM DIE
03055 2730437	LOT #N/A		
03060 MS28700-2	0000000246 A0351	951015	R&R ROR SURGE DAMP ACCUMULATOR
POSITION ACFT	LOT #N/A		
03060 MS28700-2	0000000180 A0351	951015	R&R 40X ACCUMULATOR
POSITION LTOW	LOT #N/A		
03062 MS28700-1	0000000189 A0351	951015	R&R AUX ACCUMULATOR
POSITION RHHW	LOT #N/A		
03052 MS28700-5	0000000189 A0351	951015	R&R BRAKE ACCUMULATOR
POSITION ACFT	LOT #N/A		
03062 MS28700-1	0000000246 A0351	951015	R&R AIR REFUELING ACCUMULATOR
POSITION ACFT	LOT #N/A		
03061 MS28700-1	0000049550 A0351	951015	R&R UTILITY HYD ACCUMULATOR
POSITION ACFT	LOT #N/A		
03051 204-83511-1	A0351ACFT1 A0351	941206	R&R SPOILER AIR BOTTLE
POSITION ACFT	LOT #N/A		
03053 2370037	0000000102 A0351	970522	R&R PNEUMATIC BRAKE BOTTLE
POSITION ACFT	LOT #N/A		
03050 7167122601	A035100001 A0351	950407	R&R FIN ANTENNA ABSORBER SHEETS
POSITION ACFT	LOT #N/A		
03054 65-6456-21	0000000515 A0351	950531	R&R STAB TRIM ACTUATOR
POSITION ACFT	LOT #N/A		
03074 100690002	0000000681 A0351	951231	R&R AUTO LIFE RAFT SQUIB
POSITION RWIG	LOT #N/A		
03074 100690002	1000000726 A0351	950706	R&R AUTO LIFE RAFT SQUIB
POSITION LWIG	LOT #N/A		
03072 30903801	A0351FWD02 A0351	941002	R&R ENG FIRE BOTTLE SQUIB (DOI)
POSITION FWD2	LOT #N/A		
03072 30903801	A0351AFT02 A0351	941002	R&R ENG FIRE BOTTLE SQUIB (DOI)
POSITION FWD2	LOT #N/A		
03072 30903801	A0351AFT03 A0351	941002	R&R ENG FIRE BOTTLE SQUIB (DOI)
POSITION FWD2	LOT #N/A		
03072 30903801	A0351FWD03 A0351	941002	R&R ENG FIRE BOTTLE SQUIB (DOI)
POSITION FWD2	LOT #N/A		
103023 204-40715-8	0081010727 A0351	940710	INSP/REPACK 20 MAN LIFE RAFT
POSITION LWIG	LOT #N/A		
03069 VAU32/U	0000950928 204-4	960930	R&R CYL ASSY (LIFE RAFT) (60 MON)
POSITION LWIG	LOT #N/A		
103023 204-40715-8	0000000302 A0351	940710	INSP/REPACK 20 MAN LIFE RAFT
POSITION RWIG	LOT #N/A		
03069 VAU32/U	0084156103 204-4	950301	R&R CYL ASSY (LIFE RAFT) (60 MON)
POSITION RWIG	LOT #N/A		
03059 204-13038-2	0003680395 A0351	940414	R&R EMERGENCY AIRCRAFT BATTERIE
POSITION EMER	LOT #N/A		
03058 204-13038-2	0000040223 A0351	940414	R&R MAIN AIRCRAFT BATTERIES
POSITION MAIN	LOT #N/A		
03067 2023-1	A035100002 A0351	940725	R&R WATER ACTIVATED BATTERIES
POSITION ACFT	LOT #N/A		
03066 810-416A	A03510CVR1 A0351	950125	R&R ACOUSTIC BEACON BATTERY
POSITION CVR1	LOT #N/A		
03066 810-416A	A0351DFDR1 A0351	950125	R&R ACOUSTIC BEACON BATTERY
POSITION DFDR	LOT #N/A		
03056 300181-225	A0351ACFT1 A0351	970124	R&R LCS NITRO PRESS CYL
POSITION ACFT	LOT #N/A		
03065 7938174-55	0000005480 A0351	970120	R&R CRASH POSITION LOCATOR BATTE
POSITION ACFT	LOT #N/A		
03070 874000	A0351ACFT1 A0351	960831	R&R APU FIRE EXT CARTRIDGE
POSITION ACFT	LOT #N/A		
103024 D22862-105	0002103382 A0351	940617	INSP/REPACK ESCAPE SLIDE
POSITION LFWD	LOT #N/A		
03068 D17666-103	0000801871 D2286	960630	R&R CYL ASSY (ESCAPE SLIDE) (36
POSITION LFWD	LOT #N/A		
103024 D22862-105	0020693182 A0351	940617	INSP/REPACK ESCAPE SLIDE
POSITION LAFT	LOT #N/A		
03065 D17666-103	000051160R D2286	950301	R&R CYL ASSY (ESCAPE SLIDE) (36
POSITION LAFT	LOT #N/A		
103024 D22862-105	0021648165 A0351	940617	INSP/REPACK ESCAPE SLIDE
POSITION RAFT	LOT #N/A		
03065 D17666-103	0000929584 D2286	960630	R&R CYL ASSY (ESCAPE SLIDE) (36
POSITION RAFT	LOT #N/A		

CERTIFICATE *Returned*

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

12 May 94
Date

WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

THE FOLLOWING INFORMATION IS FOR INFORMATIONAL PURPOSES ONLY

DATE: 05/11/94

TEST NO.	TEST POINT	TEST NO.	DATE	TEST RESULT	
103017	A0351	10377.4	10/1/84	INSP. MAGNETIC BRAKE SYSTEM	
103021	A0351	13909.4	10/1/84	CALIBRATE RF SAMPLE ASSY BOTH	
103022	A0351	17096.5	10/1/84	INSP ANTENNA COUPLER BRUSH BLK	
103013	A0351	13619.6	10/1/84	INSPECTION OF MAGNETIC TURNER	
103023	A0351	15877.2	10/1/84	#1 ENGINE MOUNT REQUIRES NDI	
103027	A0351	15877.2	10/1/84	#2 ENGINE MOUNT REQUIRES NDI	
103030	A0351	15877.2	10/1/84	#3 ENGINE MOUNT REQUIRES NDI	
103031	A0351	15877.2	10/1/84	#4 ENGINE MOUNT REQUIRES NDI	
103000	A0351	14030.0	07/01/84	C/W #1 PHASE INSPECTION	
103001	A0351	14280.0	07/01/84	C/W #2 PHASE INSPECTION	
103002	A0351	14490.0	07/01/84	C/W #3 PHASE INSPECTION	
103003	A0351	13340.0	07/01/84	C/W #4 PHASE INSPECTION	
103004	A0351	14950.0	07/01/84	C/W #5 PHASE INSPECTION	
103005	A0351	15180.0	07/01/84	C/W #6 PHASE INSPECTION	
103006	A0351	15410.0	07/01/84	C/W SECOND #1 PHASE INSPECTION	
103007	A0351	15570.0	07/01/84	C/W SECOND #3 PHASE INSPECTION	
103008	A0351	13570.0	07/01/84	C/W SECOND #5 PHASE INSPECTION	
103009	A0351	13200.0	07/01/84	C/W SECOND #6 PHASE INSPECTION	
03057	214359010	000001F105	A0351	17247.9	RF ASSEMBLY GENERATOR
	POSITION 44PU				LOT #N/A

***** DTU PROCESSED *****

E

FOR YOUR INFORMATION:

The following information was obtained from the test results and is being provided to you for your information. The test results are being provided to you for your information. The test results are being provided to you for your information.

12 May 94
Date

W. T. H.
Name
Title

THE FOLLOWING INSPECTION OPERATIONS WILL BE DONE ON EQUIP

TABLE 1000.1

REF. DOT 10000.0 HF

IST NBR/ PART NUMBER	INST	DUE TIME	REF. DOT	INSPECTION HF
TOTO DSE OR EQUIP ID SERIAL NBR	ON	OR DATE	IST NARRATIVE	OR TOTO NARRATIVE
103021 A0351		13900.4	CALIBRATE RF SAMPLE ASBY BOTH C	
103015 A0351		13620.6	INSPECTION OF MAGNETIC TURNABEL	
103000 A0351		14030.0	C/W #1 PHASE INSPECTION	
103003 A0351		13340.0	C/W #4 PHASE INSPECTION	
103008 A0351		13570.0	C/W SECOND #2 PHASE INSPECTION	
103009 A0351		13600.0	C/W SECOND #4 PHASE INSPECTION	

***** DTU PROCESSED *****

CERTIFICATE

Faint, mostly illegible text, likely a standard certificate form header or body text.

12 May 94

W. J. Harris

Faint text below the signature, possibly a title or department name.

TAB U-3

E-3B AWACS

U-3a Detailed Debrief Sorties Recap

U-3b TCTO 1E-3-673, 22 April 1994

U-3c TCTO L552401, 22 April 1994

U-3d Special Inspection/TCTOs due on A/C 77-0351

U-3e DD Forms 2027, Oil Analysis Records

U-3a

U-3b

U-3c

U-3d

U-3e

OIL ANALYSIS RECORD

SAMPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE		REASON FOR SMPL.	SPECTROMETRIC ANALYSIS																				VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND																								
					OVHL	OIL CHG		FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD	MN	MO	V	ZN																														
15	4580				0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1																																		
2	4081				19004	4	F	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0																												
112	4083				19113	13	R	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																											
41	4137				19026	25	R	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0																											
58	4102				19045	45	R	1	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0																													

CERTIFICATE Reduced

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

12 May 94
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

OIL ANALYSIS RECORD				COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	RESO-HCC	CUSTOMER IDENTIFICATION	LAB	END ITEM MODEL/HULL NUMBER	END ITEM SERIAL NUMBER	TYPE OIL	REMARKS																				
					TF33	1659990					1-31	0351		#3																				
SAMPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE		REASON FOR SMPL.	SPECTROMETRIC ANALYSIS														VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND							
					OVHL	OIL CHG		FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B							BA	CD	MN	MO	V	ZN	
		4027			18626	1425	R	0	0	0		0	0	2		0		0						1						5	A			
27		4027			16509	1431	R	1	0	0		0	0	4		0		0						0						6	A			
24		1051			16672	1454	R	1	0	0		0	0	3		0		0						0						7	A			
37		1060			16693	148	R	1	0	0		0	0	3		1		0					0							8	A			
3		40			16715	1497	R	1	0	0		0	1	3		1		0					1							9	A			
45		4087			16736	1518	R	1	0	0		0	1	3		0		1					1							10	A			
39		4102			16756	1528	R	2	0	0		0	0	3		1		0					0							11	A			

CERTIFICATE *Reduced*
I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.
Date: 12 May 94 *William L. Harris*
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

OIL ANALYSIS RECORD				COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	CUSTOMER IDENTIFICATION	LAB	END ITEM MODEL/HULL NUMBER	END ITEM SERIAL NUMBER	TYPE OIL	REMARKS																
				TFS	696816			E-3C		77-0351		#4																	
SAMPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE	REASON FOR SMPL.	SPECTROMETRIC ANALYSIS																	VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND
							OVHL	OIL CHG	FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA						
		4032			11049 37	R	0	0	0	0	0	0	0	0	16	1									SA				
25		4039			11073 60	R	0	0	0	0	0	0	0	0	32	0									SA				
42		4049			11072 60	L	1	0	0	0	0	1	0	0	32	0									SA				
308		4050			11082 70	L	1	0	0	0	0	3	0	0	31	0									SA				
1		4053			11082 0	L	1	0	0	0	0	0	0	0	7	0									SA	3 + FITS			
25		4054			11090 8	R	1	0	0	0	0	0	0	0	8	0									SA	2 MORE FL			
34		4060			11103 16	R	1	0	0	0	0	1	0	1	9	1									SA	1 MORE FL			
5		4062			11106 19	L	0	0	0	0	0	1	0	0	10	1									SA				
38		4064			11116 29	R	1	0	0	0	0	1	0	0	11	1									SA				
4		4081			11138 51	R	1	0	0	0	0	1	0	0	11	1									SA				
46		4081			11159 72	R	1	0	0	0	0	2	0	0	11	1									SA				
60		4102			11179 92	R	2	0	0	0	0	1	0	1	13	0									SA				

CERTIFICATE *Redund*

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

W. L. Harris
 Date 12 May 94
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

OIL ANALYSIS RECORD							COMPO-NENT CONTROL NO. (CCN)	EQUIP-MENT MODEL/ APL	0316	EQUIPMENT SERIAL NUMBER	TYPE EQUIP-MENT CODE	CUSTOMER IDENTI-FICATION	LAB	END ITEM MODEL/HULL NUMBER	77-0351	END ITEM SERIAL NUMBER	TYPE OIL	REMARKS																
SAMPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE		REASON FOR SMPL.	SPECTROMETRIC ANALYSIS													VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND								
					OVHL	OIL CHG		FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI							B	BA	CD	MN	MO	V	ZN	
	1050				3206	3206	R	1	0	0	0	0	0	1	0	0																		
47	1097				3238	3238	R	1	0	0	0	0	0	0	0	0																		
61	1102				3258	3258	R	1	0	0	0	0	0	1	0	0																		

CERTIFICATE

Reduced
 I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

W. L. Harris
 WILIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

12 May 94
 Date

TAB U

AIRCRAFT MAINTENANCE RECORDS

U-1 UH-60 Black Hawk 88-26060

(This tab not used)

U-2 UH-60 Black Hawk 87-26000

(This tab not used)

U-3 E-3B AWACS

U-4 F-15C 79-0025

U-5 F-15C 84-0025

U-1

U-2

U-3

U-4

TAB U-4

F-15C 79-0025

U-4a DD Form 2027, Oil Analysis Records

U-4b TCTO 1229, 22 April 1994

U-4c Outstanding Aircraft TCTOs, 22 April 1994

U-4d Outstanding Engine TCTOs

U-4a

6814122

SPECTROMETRIC ANALYSIS

9025 #1

SAMPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TO	LAST LAB. RECOMMENDATION	HOURS MILES SINCE		REASON FOR SMPLE	FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD	MN	MO	V	ZN	VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND	
					OVHL	OIL CHG																												
		11695			3042	527		2	0	0		0	1	0		2		1		1								HA						
		41096		A	3048	533	R																											
28		4100			3053	538	R	2	0	0		0	1	0		1		0		1								AA						
13		4101			3053	541	R	2	0	0		0	0	0		1		0		1								CA						
35		4103			3054	544	R	2	0	0		0	1	0		2		0		1								CA						
1		4104			3060	548	R	2	0	0		0	1	0		2		0		1								HA						

OIL ANALYSIS RECORD										COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	681901	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	PHOTOGRAPHIC	CUSTOMER IDENTIFICATION	F-15C	9025	TYPE OIL	REMARKS												
MPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE	REASON FOR SMPL	FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD	MN	MO	V	ZN	VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND
		4048			2585 200	R	1	0	0		0	0	0		0		0		1								T	A				
53		4049			2592 207	R	1	0	0		0	0	0		0		0		0								T	A				
13		4050			2595 210	R	1	0	0		0	0	0		0		0		1								T	A				
28		4051			2599 214	R	1	0	0		0	0	0		0		0		1								T	A				
31		4053			2604 229	R	1	0	0		0	0	0		1		0		0								T	A				
46		4055			2607 232	R	1	0	0		0	0	0		0		0		1								T	A				
22		4061			2611 236	R	1	0	0		0	0	0		1		0		1								T	A				
43		4063			2615 243	R	1	0	0		0	0	0		1		0		1								T	A				
12		4066			2618 246	R	1	0	0		0	0	0		1		0		1								T	A				
4		4067			2621 252	R	1	0	0		0	0	0		0		0		1								T	A				
26		4068			2628 256	R	1	0	0		0	0	0		1		0		1								T	A				
		4079			2632 260	R	1	0	0		0	1	0		1		1		1								T	A				
12		4079			2634 262	R	1	0	0		0	1	0		1		0		1								T	A				
37		4084			2639 267	R	2	0	0		0	1	0		2		0		1								T	A				
18		4085			2642 270	R	1	0	0		0	1	0		1		1		1								T	A				
33		4088			2652 280	R	1	0	0		0	1	0		0		0		0								T	A				
32		4089			2655 283	R	1	0	0		0	1	0		1		1		1								T	A				

CERTIFICATE
 I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.
 W-LH
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey
 Date: 7 May 94

#2

TAB U-4

F-15C 79-0025

U-4a DD Form 2027, Oil Analysis Records

U-4b TCTO 1229, 22 April 1994

U-4c Outstanding Aircraft TCTOs, 22 April 1994

U-4d Outstanding Engine TCTOs

U-4a

U-4b

INPUT IMAGE : TREATMAHPHYM:YYYY A9025A4025

REC. W/C : MAMP

WCE	WORK	INSTL	EQUIP	COMPLETED						
NBR	CENTER	POSIT	ID	DATE	HOURS	WUC	PART-NUMBER	W O R K	C E N T E R	N A R R A T I V E
001	KSPE		A9025				NO PART-NUMBER	T/S	INSPECTED	WAVEGUIDE ASSEMBLY. IT IS NEW. U22 A
EVENT=10	HMC	WDC	SYM	DEF/UNS	M A I N T E N A N C E - D I S C R E P A R A C Y - N A R R A T I V E					
941400123	TEWS-UPGRADE-AN/ALQ-135(V) FOR BAND 3 CO									

WCE	WORK	INSTL	EQUIP	COMPLETED						
NBR	CENTER	POSIT	ID	DATE	HOURS	WUC	PART-NUMBER	W O R K	C E N T E R	N A R R A T I V E
001	KSPE		A9025				NO PART NUMBER	C/W TC10 1F-15-1060		

MAINTENANCE HISTORY

TC10-NUMBER	DATA CODE	TYPE	SAFTY	ACC	CODE	STATUS	CGDE	STATUS	DATE	TC10-NARRATIVE
12P3=2ALQ135=526	1205670					17		94096		TC10-12P3-526 MOD OF AN/ALQ-135
1F-15-1162	0175522					02		93243		TC10 1162 AIRCREW EYE/RESPIR PROTECTION
1F-15-1221	0477879					02		94068		TC10 1F-15-1221 INST OF VIB JUMPER CABLE
1F-15-1197	0177010					02		93243		REWORK ACESII EJECT SEAT PAN LID & SUR KI
L930002	L930002					02		93242		L930002 JFS HYD START ENERGY INT LINE
1F-15-1242	0178615		*			02		93214		OTI INSP/REP OF 20,30,30 AMP CIRCUIT BRE
L920003	L920003					02		93260		L920003 OTI FOR CORRECT JVCB RELAY P/N
1F-15-1218	0177802					02		93295		EJECT SEAT DATA GAS HOSE GUIDE STRAP INST
1F-15-1249	0175866		*			02		93240		INSP OF F-15 PARACHUTE CONT. ASSEMBLIES
1F-15-1246	0178641		*			03		93214		OTI FOR CORRECT HLG AXLE NUT RET RING
13A5-56-347	1300745					02		93008		OTI OF ENV. SENSORS ACES II EJECT SEAT
13A5-56-548	1300751					02		93225		13A5-56-548 INSP OF ALL ACESII LAF BELTS
L930005	L930005					02		93225		L930005 OTI OF INT. DRIVE GEN (IDG) WIRE
1F-15-1237	0178555					11		93169		1F-15-1237 F-15 MAIN LAND GEAR/DOOR SELE
1F-15-1021	0170640					02		93235		1F-15-1021, UTL, HYD, PRES, TRANSM, WIRE
L930006	L930006					02		93242		L930006 OTI OF WIRE BUNDLE BUNDLE W57219
1F-15-1210	0177569					02		93295		1F-15-1210 F-15 LIMITED DUTY HOSE DEACT.
L930007	L930007					02		93292		L930007 OTI OF HORIZ STAD CTRL CABLES 2
1F-15-1229	0178318					01		94068		1F-15-1229 REM OF IFF KIR-1A/TSEC TRANS.
1F-15-1253	0178891					11		94040		1F-15-1253 JFS EXHAUST DUCT REP FOR F-15
1F-15-1255	0179459					12		94053		1F-15-1255 UPDT OF OPER FLIGHT PROGRAM
1F-15-1267	0179505					02		94041		1F-15-1267 OTI A/C ELECTRICAL HARNESS
1F-15-977	0168858		*			11		94002		FIRE DETECT SYSTEM - AFTERBURNER SYSTEM
1F-15-1039	0171292		*			11		94002		WING/CFT TRANSFER PUMP FAILURE WARNING
1F-15-1040	0171510					17		94074		TEWS-UPGRADE-AN/ALQ-135(V) FOR BAND 3 CO
1F-15-1135	0174895					11		94062		ENGINE INTERCHANGEABILITY
1F-15-1265	0179527					01		94109		OTI AL300 2 AL3135(BAND3)4553 NUX BUS

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from *Equip Review Rpt - ACFT 78-0025*

which is kept in my records system.

William L. Harris
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

TAB U-4

F-15C 79-0025

U-4a DD Form 2027, Oil Analysis Records

U-4b TCTO 1229, 22 April 1994

U-4c Outstanding Aircraft TCTOs, 22 April 1994

U-4d Outstanding Engine TCTOs

U-4a

U-4b

U-4c

INPUT IMAGE : TREA1MAMPHYYNYYYY A9025A4025

REQ. W/C : NAMP

INSPECTION NARRATIVE	TYPE	INT	FREQ	SYM	ACTIVE	IND	POS	INSP NO	DUE TIME	TYPE INSP	JST NBR
30MG ACFT WEIGHT & BALANCE 53FS F-15	M		000036					1	96267	B	53073
40MG DOI INSP FUSE INT FUEL TANK FOAM IAW:1F-15A-6	M		000045					1	97214	B	53045
60MG DOI INSP INT FUSE FUEL TANK FOAM IAW:1F-15A-6	M		000060					1	97214	B	53041
TODAY AVTR CLEAN AND INSPECT.	D		000090					1	94153	D	53730
400HR L/R WING TIP CLOSURE RISS (P/W-53A115105)	H		000400					1	03771.4	A	53019

*** NO TIME CHANGE DATA FOUND ***

TCTO NUMBER	T C T O DATA	T C T O CODE	TCTO TYPE	SAFE IND	K/P/T REQ	ACC CODE	ISSUE DATE	RECIS DATE	RECVD DATE	S T A T U S DATE	DUE DATE	TCTO STATUS	CODE	NARRATIVE
1223-2AL0133-526	1205670		M		K-P		08233	94235	08236	94698	17	94186		TCTO 1223-526 MOD OF AN/A
1F-15-1237	0178553		M				93035	96016	93159	93169	11	00000		1F-15-1237 F-15 MAIN LAND
1F-15-1253	0178891		M				94033	94039	94070	94040	11	00000		1F-15-1253 JF6 EXHAUST DU
1F-15-1263	0179459		M				93344	94344	94003	94063	12	00000		1F-15-1263 UPDT OF OPER F
1F-15-977	0163853		M	*	K		91305	95305	92247	94042	11	00000		FIRE DETECT SYSTEM - AFTE
1F-15-1039	0171292		M	*	K		91277	95275	92055	94052	11	00000		WING/CFT TRANSFER PUMP FA
1F-15-1060	0171910		M				95235	94235	92257	94096	17	94276		TEWS UPGRADE AN/ALQ-135(V
1F-15-1135	0174305		M		K		92101	99275	92286	94062	11	00000		ENGINE INTERCHANGEABILITY

OPEN MAINTENANCE EVENTS

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE DISCREPANCY NARRATIVE
941013006			/	UNS	(ORC) ENG HAS INCORRECT PROGRAM LOADED.

WCE NBR	WORK CENTER	INSTR POSIT	EQUIP ID	COMPLETED DATE	HOURS	WUC	PART-NUMBER	WORK CENTER	NARRATIVE
001	KSPE		A9025			76K	NO PART NUMBER		FLYABLE CODE 2 DISCREPANCY SINCE IT DISPENSES THE

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE DISCREPANCY NARRATIVE
941028012		F	X	UNS	RWR SCOPE INOP, INTERMITTENT

WCE NBR	WORK CENTER	INSTR POSIT	EQUIP ID	COMPLETED DATE	HOURS	WUC	PART-NUMBER	WORK CENTER	NARRATIVE
001	KSPE		A9025			750	NO PART NUMBER		FOUND ON ENGINE RUN

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE DISCREPANCY NARRATIVE
941043001		/	/	UNS	(ORC) MULTTRACTOR FAIL

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from *Equip Review Report ACFT 79-0025*

which is kept in my records system.

W. L. Harris
Date

WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

TAB U-4

F-15C 79-0025

U-4a DD Form 2027, Oil Analysis Records

U-4b TCTO 1229, 22 April 1994

U-4c Outstanding Aircraft TCTOs, 22 April 1994

U-4d Outstanding Engine TCTOs

U-4a

U-4b

U-4c

U-4d

TCTOS Deleted

***** TOTO REPORT *****

FOR

~E1412~

NO NUMBER	STATUS CODE	DATE	EXPIRE DATE	GROUNDING DATE	RESCISSON DATE	DATA CODE
-F100-840 ✓	01	11 OCT 91		15 SEP 94	15 NOV 94	0215099
-F100-761	03	17 OCT 90		02 FEB 95	03 APR 95	0213903
-F100-754	22	08 OCT 91		24 FEB 95	25 APR 95	0213648
-F100-833	15	05 JUN 91		02 DEC 95	31 JAN 96	0214672
-F100-765	01	05 AUG 91		04 NOV 96	03 JAN 97	0213955
-F100-749	03	17 OCT 90		01 AUG 95	30 SEP 98	0213395

DI PROCESSED.

VERSION DATE: 100292

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from *Engine Automated Records on Engine # E1412*

which is kept in my records system.

7 May 94
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

~~4H TC10's Deleted~~

***** TOTO REPORT *****

FOR

^^E1901^^

TOTO NUMBER	STATUS CODE	DATE	EXPIRE DATE	GROUNDING DATE	RESCISSON DATE	DATA CODE
-F100-840	03	29 APR 93		15 SEP 94	15 NOV 94	0215099
-F100-761	02	07 FEB 91		02 FEB 95	03 APR 95	0213903
-F100-754	22	26 JAN 93		24 FEB 95	25 APR 95	0213645
-F100-833	15	05 JUN 91		02 DEC 95	31 JAN 96	0214872
-F100-765	01	26 JAN 93	02 OCT 95	04 NOV 96	03 JAN 97	0213955
-F100-749	02	07 FEB 91		01 AUG 95	30 SEP 95	0213395

01 PROCESSED.

VERSION DATE: 100292

***** TOTO REPORT *****

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from

Engine Automated Recorder Engine # E1901

which is kept in my records system.

7 Aug 94
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

TAB U

AIRCRAFT MAINTENANCE RECORDS

U-1 UH-60 Black Hawk 88-26060

(This tab not used)

U-2 UH-60 Black Hawk 87-26000

(This tab not used)

U-3 E-3B AWACS

U-4 F-15C 79-0025

U-5 F-15C 84-0025

U-1

U-2

U-3

U-4

U-5

TAB U-5

F-15C 84-0025

U-5a DD Forms 2027, Oil Analysis Records

U-5b TCTO 1229, 22 April 1994

U-5c Outstanding Aircraft TCTOs, 22 Apr 94

U-5d Outstanding Engine TCTOs

U-5a

OIL ANALYSIS RECORD

F15C 681754

025#12

REMARKS

COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	CUSTOMER IDENTIFICATION	LAB	END ITEM MODEL/HULL NUMBER	END ITEM SERIAL NUMBER	TYPE OIL
-----------------------------	---------------------	-------------------------	---------------------	-------------------------	-----	----------------------------	------------------------	----------

SAMPLE NUMBER	DATE	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE		REASON FOR SMPL.	SPECTROMETRIC ANALYSIS																VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND		
					OVHL	OIL CHG		FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD							MN	MO
31 mar				A	2501	490		1	0	0	0	0	0	0	0	0	0	2								A					
31 mar				A	2506	492		1	0	0	0	1	0	0	0	0	0	2								A					
5 APR				A	2509	496		2	0	0	0	1	0	1	0	0	0	2								A					
4096				A	2516	513	R	1	0	0	0	1	0	1	1	0	0	3							SA						
4098					2520	517	R	1	0	0	0	0	0	1	1	0	0	2							KA						
4100					2524	521	L	1	0	0	0	0	0	0	0	0	0	2							HA						
4101					2526	523	R	1	0	0	0	0	0	1	0	0	0	2							KA						
4101					2529	526	R	1	0	0	0	0	0	1	0	0	0	2							CA						
4102					2530	527	R	1	0	0	0	0	0	1	1	0	0	3							MA						
4103					2535	532	R	1	0	0	0	0	0	1	2	0	0	2							KA						
4104					2539	536	L	1	0	0	1	0	0	1	0	0	0	2							HA						

CERTIFICATE

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.

21 Apr 94
Date

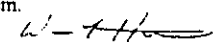
W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

OIL ANALYSIS RECORD		FHC 660698		84		025#1		REMARKS	
		COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	CUSTOMER IDENTIFICATION	LAB	END ITEM MODEL/HULL NUMBER	END ITEM SERIAL NUMBER

SAMPLE NUMBER	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE		REASON FOR SMPL	SPECTROMETRIC ANALYSIS																	VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	HOW FOUND		
					OVHL	OIL CHG		FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD	MN							MO	V
		30 Mar		A	3209	66		1	0	0		0	0	0	0	1											A					
		31 Mar		A	3210	69		1	0	0		0	0	0	0	2											A					
		15 Apr		A	3212	72		1	0	0		0	0	0	1	1											A					
		4096		A	3219	77		1	0	0		0	0	0	1	4											A					
31	4098				3223	81	R	1	0	0		0	0	0	1	3											A					
26	4100				3227	85	L	1	0	0		0	0	0	1	1											A					
13	4101				3228	86	R	1	0	0		0	0	0	0	1											A					
13	4101				3231	89	R	2	0	0		0	0	0	0	1											A					
F	4102				3232	90	R	1	0	0		0	0	0	0	2											A					
84	4103				3237	95	R	1	0	0		0	0	0	1	1											A					
10	4104				3241	99	L	1	0	0		0	0	0	1	1											A					

CERTIFICATE

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate copy of the record which is kept in my records system.


 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

Date: 2 May 94

TAB U-5

F-15C 84-0025

U-5a DD Forms 2027, Oil Analysis Records

U-5b TCTO 1229, 22 April 1994

U-5c Outstanding Aircraft TCTOs, 22 Apr 94

U-5d Outstanding Engine TCTOs

U-5a

U-5b

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from *Equip Review Report HCFT 94-0025* which is kept in my records system.

7 May 94
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

PREPARED 94 APR 22 03:40

EQUIPMENT REVIEW REPORT

FCN 36054-14

INPUT IMAGE : TREATMAMPNYNNYYYY A9025A4025

REG. W/C : MAMP

WCE NBR	WORK CENTER	INSTR POSIT	EQUIP ID	COMPLETED DATE HOURS	WUC	PART-NUMBER	WORK CENTER	NARRATIVE
003	CATS		A4025	94102 2230	74FS0	NO PART NUMBER	039 #1387	

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE	DISCREPANCY	NARRATIVE
940950110		D	X	UNS	INLET ICE LT ON RETURN TO BASE		

WCE NBR	WORK CENTER	INSTR POSIT	EQUIP ID	COMPLETED DATE HOURS	WUC	PART-NUMBER	WORK CENTER	NARRATIVE
001	KAEL		A4025		11P	NO PART NUMBER	T/S	

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE	DISCREPANCY	NARRATIVE
940950145		D	X	UNS	INLET ICE LT ON RETURN TO BASE		

WCE NBR	WORK CENTER	INSTR POSIT	EQUIP ID	COMPLETED DATE HOURS	WUC	PART-NUMBER	WORK CENTER	NARRATIVE
001	KAEL		A4025		11P	NO PART NUMBER	T/S	

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE	DISCREPANCY	NARRATIVE
941003004		B	X	UNS	(OPC) GAGA2/JFS FUEL LEAK PRIOR TO TAXI.		

WCE NBR	WORK CENTER	INSTR POSIT	EQUIP ID	COMPLETED DATE HOURS	WUC	PART-NUMBER	WORK CENTER	NARRATIVE
001	KAEL		A4025		245	NO PART NUMBER	(OPC) GAGA2/JFS FUEL LEAK PRIOR TO TAXI.	

MAINTENANCE HISTORY

TCTO NUMBER	DATA CODE	TYPE	SAFTY	ACC CODE	STATUS CODE	STATUS DATE	TCTO NARRATIVE
1F-15-1253	0178891				11	94040	1F-15-1253 JFS EXHAUST DUCT REP FOR F-15
1F-15-1263	0179459				12	94063	1F-15-1263 UPDT OF OPER FLIGHT PROGRAM
1F-15-1229	0178318				01	94075	1F-15-1229 REM OF IFF KIR-1A/TSEC TRANS
L930007	L930007				02	93306	L930007 OTI OF HORIZ STAB CTRL CABLES &
1F-15-1210	0177569				02	93306	1F-15-1210-F-15 LIMITED DUTY MODE DEACT.
L930006	L930006				02	93238	L930006 OTI OF WIRE BUNDLE BUNDLE W67219
13A5-56-548	1300751				02	93225	13A5-56-548 INSP OF ALL ACES II LAP BELTS
L930005	L930005				02	93196	L930005 OTI OF INT. DRIVE GEN (IDG) WIRI
1F-15-1237	0178555				11	93169	1F-15-1237 F-15 MAIN LAND GEAR/DOOR SELE

TAB U-5

F-15C 84-0025

U-5a DD Forms 2027, Oil Analysis Records

U-5b TCTO 1229, 22 April 1994

U-5c Outstanding Aircraft TCTOs, 22 Apr 94

U-5d Outstanding Engine TCTOs

U-5a

U-5b

U-5c

30DAY IN USE INSP LUDE COMM SUN IAW:1F-15A-6	D	000000	1	94124	B	53050
14 DAY ACFT RECORDS CHECK	D	000014	1	94111	B	53007
200HR NDI UPPER 24" VERT STAB TORQUE BOX ASSY.	H	000200	1	03158.0	A	53010
200HR NDI UPPER 24" VERT STAB FWD LOX ASSY.	H	000200	1	03158.0	A	53011
600HR NDI TAP TEST L/R VERT STAB (69A230051)	H	000600	1	03399.2	A	53013
600HR NDI UPPER 24" VERT STAB FWD BOX ASSY	H	000300	1	03399.2	A	53014
600HR NDI UPPER 24" VERT STAB TORQUE BOX ASSY. (P/N	H	000600	1	03399.2	A	53015
600HR NDI L/R VERT STAB FWD TORQUE BOX (P/N-52A230	H	000500	1	03399.2	A	53016
4000HR NDI IAW:1F-15A-6, PG:2-A-012A, PAR:31 A,B,D	H	004000	1	04000.0	A	53018
4000HR NDI MAIN ENGINE MOUNT ASSY BODY (P/N-63A5000	H	004000	1	04000.0	A	53033
90DAY CLEAN & INSP MAU-12 IAW:1F-15C-6 PG:2-A-026	D	000090	1	94165	B	53051
90DAY INSP & LUDE LAU-100 IAW:1F-15A-6 PG:2-A-026	D	000090	1	94166	B	53052

PCN 30054-14

PAGE 378

VERSION DATE: 05 AUG 93

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from

Equip Review Rpt ACFT 84-0025

which is kept in my records system.

8 May 94

Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

PREPARED 94 APR 22 05:46

EQUIPMENT REVIEW REPORT

PCN 30054-14

INPUT IMAGE : TREATMAMPNHHHHHH A9025A4025

REQ. WFL : MAMP

INSPECTION NARRATIVE	TYPE	INT	FREQ	SYM	ACTIVE	IND	POS	INSP NO	DUE TIME	TYPE	INSP	JST	NER
90DAY CLEAN & INSP LAU-125 IAW:1F-15A-6 PG:2-A-026	D		000090			1			94166	B			53054
48NO DOI INSP FUSE INT.FUEL TANK FOAM IAW:1F-15A-6	H		000048			1			97070	B			53040
60HO DOI INSP INT FUSE FUEL TANK FOAM IAW:1F-15A-6	H		000060			1			99070	B			53041
36MO ACFT WEIGHT & BALANCE 53FS F-15	M		000036			1			96277	B			53078
90DAY AVTR CLEAN AND INSPECT.	D		000090			1			94163	D			53730
400HR L/R WING TIP CLOSURE RISE (P/N-68A115105)	H		000400			1			03199.2	A			53019

*** NO TIME CHANGE DATA FOUND ***

TCTO NUMBER	T C T O DATA	TCTO CODE	TCTO TYPE	SAFE IND	K/P/T REC	ACC CODE	ISSUE DATE	RECIS DATE	RECVD DATE	S T A T U S DATE	DUE DATE	TCTO STATUS	CODE	NARRATIVE
1F-15-1253	0172397		M				94003	96059	94040	94040	11	00000		1F-15-1253 JFS EXHAUST DU
1F-15-1263	0175459		M				93344	94344	94003	94063	12	00000		1F-15-1263 UPDT OF OPER F
1F-15-1237	0175535		M				93036	96036	93167	93169	11	00000		1F-15-1237 F-15 MAIN LAH
15-1165	0175532		M				91158	96159	91270	94090	09	00000		TCTO 1165 INSP/RMVL AYK1C
15-977	0168856		M	*	K		94305	95305	92247	94662	11	00500		FIRE DETECT SYSTEM AFTE
1F-15-1039	0171292		M	*	K		91277	95278	92055	94062	11	00000		WING/CFT TRANSFER PUMP FA
1F-15-1135	0174895		M		K		92181	99273	92286	94962	11	00000		ENGINE INTERCHANGEABILITY
1F-15-1252	0178890		M		P		94028	95028	94067	94076	17	94335		TAPING OF WIRE HARNESS UN

OPEN MAINTENANCE EVENTS

EVENT ID	HNC	WDC	SYM	DEF/UNS	MAINTENANCE	DISCREPANCY	NARRATIVE
94000263	H	X		UNS	PWLS2R TORQ.		

WCC	WORK	INSTR	EQUIP	COMPLETED	WCC	PART-NUMBER	WORK	CENTER	NARRATIVE
NO	CENTER	POSIT	ID	DATE HOURS	WCC				

TAB U-5

F-15C 84-0025

U-5a DD Forms 2027, Oil Analysis Records

U-5b TCTO 1229, 22 April 1994

U-5c Outstanding Aircraft TCTOs, 22 Apr 94

U-5d Outstanding Engine TCTOs

U-5a

U-5b

U-5c

U-5d

TCTOS Deleted

***** TOTO REPORT *****

FOR

^^E1754^^

TOTO NUMBER	STATUS CODE	DATE	EXPIRE DATE	GROUNDING DATE	RESCISSON DATE	DATA CODE
J-F100-840	09	21 NOV 91		15 SEP 94	15 NOV 94	0215099
J-F100-761	03	19 OCT 90		02 FEB 95	03 APR 95	0213903
J-F100-754	01	10 JUL 89		24 FEB 95	25 APR 95	0213645
J-F100-833	15	05 JUN 91		02 DEC 95	31 JAN 96	0214872
J-F100-763	11	02 MAY 89		04 NOV 96	03 JAN 97	0213955
J-F100-749	03	19 OCT 90		01 AUG 98	30 SEP 98	0213395

DI PROCESSED.

VERSION DATE: 100292

***** TOTO REPORT *****

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from

Engine Automated Record on Engine # E1754

which is kept in my records system.

7 May 94
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

***** FIVE REPORT *****

FDR

02E069811

TO NUMBER	STATUS CODE	DATE	EXPIRE DATE	GROUNDING DATE	RESCISSON DATE	DATA CODE
AF100-853	15	05 JUN 91		02 DEC 95	31 JAN 96	021487Z

1 PROCESSED.

VERSION DATE: 100292

EXTRACT

I certify that I am the Records Custodian for the Accident Investigation Board convened to investigate the crash of two U.S. Army Black Hawk helicopters in the no fly zone in northern Iraq on 14 April 1994, and that this is a true and accurate extract from

Engine Automated Record on Engine #E0698
which is kept in my records system.

7 May 94
Date

W. L. Harris
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey