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**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

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OF

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TAB U

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U-3 E-3B AWACS

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U-3a

U-3e DD Forms 2027, Oil Analysis Records

UNCLASSIFIED
 733
 PILOT
 [REDACTED]
 FNA F80A: EFF RTE POSS/ACHV ALERT CAYE ERCS TOTAL ERCS RAD

REMARKS: MTT #2 MAN BRING UP VACCUM

MOD ECH TAKEOFF ECH LANDING ACT TAKEOFF ACT LANDING DLX AUC
 01 13 APR 94 2336 14 APR 94 1140 13.2 ATOP
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

CAP BLK MOD NPL: NPL: FAULT CODE:
 1 000 000 MAINT EVT ID: 941042066 CAUSE: ENG SHUTDOWN: WHERE: LTAG
 (FMOD) MTT #2 WILL NOT BRING UP VACCUM

CAP BLK MOD NPL: NPL: FAULT CODE:
 1 000 000 MAINT EVT ID: 941042066 CAUSE: ENG SHUTDOWN: WHERE: LTAG
 (FMOD) #2 HAVE SIREN HAD SOFT BYTE FAILURE ON CLIMBOUT AND 2
 EECENT

CAP BLK MOD NPL: NPL: FAULT CODE:
 2 043 890 MAINT EVT ID: 941042066 CAUSE: ENG SHUTDOWN: WHERE:
 (FMOD) NAV ADS PANEL HAS INTERMITTENT VOLUME SURGES

CAP BLK MOD NPL: NPL: FAULT CODE:
 2 038 230 MAINT EVT ID: 941042066 CAUSE: ENG SHUTDOWN: WHERE:
 (FMOD) #2 ENG THROTTLE 1 1/2 ANDS AFT IN FLIGHT

CAP BLK MOD NPL: NPL: FAULT CODE:
 2 038 230 MAINT EVT ID: 941042066 CAUSE: 1 ENG SHUTDOWN: WHERE:
 (FMOD) #2 ENG COMPRESSOR STALLED WHEN DESCENDING FROM 32 TO
 25 THOU AND WHEN FF WAS REDUCED TO 2000 RPH

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	484	FIRE DET SYSTEM	037	1	510	INSTRUMENTS
038	1	510	ACTD 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	1	650	IFF ANT	045	1	658	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	698	TADIL-A
048	1	690	SECURE COMM	049	1	695	JTIDS/VOODOO
050	1	57H	ESS	051	1	710	RADIO NAV
052	1	720	RADAR NAV	053	1	810	SURV RADAR
054	1	87H	CONSOLES	055	2	820	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
 Date

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

* Control Witness to
 Gode F
 Wilcox

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

SORTIE# 735 SORTIE DATE 94100 SORTIE OF DAY 1 MISSION DPC052 LOS STAT 1 SYS 510 EFF/CAUSE F
PILOT CAPT. DALEY CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
FSA FASDA: CFF PTE POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

HF#2 HAS A BAD AMB#72
MOD SCH TAKEOFF SCH LANDING AOT TAKEOFF AOT LANDING DUR AUC
01 11 APR 94 1307 12 APR 94 0911 10.1 ATSP
LAUNCH BASE: LTAG RECOVERY BASE: LTAG

=====
CAP BLK WUC MFL: MFL: FAULT CODE:
1 040 510 MAINT EVT ID: 741022065 CAUSE: ENG SHUTDOWN: WHERE: LTAG
(FMC) HF #2 HAS A BAD COUPLER CONTROL.

=====
CAP BLK WUC MFL: MFL: FAULT CODE:
2 040 510 MAINT EVT ID: 741022066 CAUSE: ENG SHUTDOWN: WHERE: LTAG
(FMC) HF#2 HAS A BAD PP-4992 IN REC BACK.

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

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	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

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12 May 94
Date

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

SORTIE# SORTIE DATE SORTIE OF DAY MISSION LGE STAT SYS OFF-CAUSE
 733 94037 1 OPS0067 2 810 E
 PILOT CREW DEBRIEFER ENG EMUT TIME TURNAROUND GALT
 MAYO MAG KARL WILLIAM P
 FSA FSABA: EFF PTE POSS/ACHV ALERT DAYS ERO3 TOTAL ERO3 RAD

REMARKS: [FMCD] BEAM STEERING DRIVER 25 IS BAD
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUF AUC
 01 27 MAR 94 2131 25 MAR 94 0548 11.3 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 MJC 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	520	AUTO PILOT	039	1	550	MALE 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, [Signature], [Name], [Title], [Organization],
 hereby certify that the information contained herein is true and correct.
 [Signature] [Name] [Title] [Organization]

12 May 94
 [Signature]

[Signature]
 [Name]
 [Title]
 [Organization]

SORTIE# 735 SORTIE DATE 94034 SORTIE OF DAY 1 MISSION DPC067 LBS STAT 2 EYE 810 EFF/CAUSE E
 PILOT CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
 BONNER CAPT KARL WILLIAM F
 FSA FSABA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

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

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

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

CAP BLK WUC 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	MALE 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	695	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/DSR
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

AIRCRAFT A0351 DETAILED DEBRIEF SORTIE RECAP 28/APR/94 11:01:00

SORTIE# 735 SORTIE DATE 94051 SORTIE OF DAY 1 MISSION OPC064 LOS STAT 2 SYS 410 EFF/CAUSE E
PILOT BONNER CAPT CREW DEBRIEFER KARL WILLIAM P ENG SHUT TIME TURNAROUND SALT
FSA FSAG4: EFF PT3 POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

[FMCD] #4 BLEED VALVE INOP

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

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

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

CAP BLK WUC MFL: MFL: FAULT CODE:
2 043 640 MAINT EVT ID: 940812067 CAUSE: ENG SHUTDOWN: WHERE:
[FMCD] COPILOTS ADS PNL CALL SELECT HAS BUSY SIGNAL

CAP BLK WUC MFL: MFL: FAULT CODE:
2 052 720 MAINT EVT ID: 940812068 CAUSE: ENG SHUTDOWN: 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	530	MALE 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
WLL

W. F. H.

AIRCRAFT 40001 DETAILED DEBRIEF SORTIE RECORD 20 APR 94 10:48:04

SORTIE# 735 SORTIE DATE 94071 SORTIE OF DAY 1 MISSION DPG057 LOG STAT 2 SYS 410 EFF/CAUSE E
 PILOT CREW DEBRIEFER END SHUT TIME TURNAROUND SALT
 PEEBLES CAPT KARL WILLIAM P
 FSA FSAGA: 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 SHUTDOWN:	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 SHUTDOWN:	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 SHUTDOWN:	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 SHUTDOWN:	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 SHUTDOWN:	WHERE:

[FMCD] COMM CORD POS 7 BAD

=====

CAP	BLK	WUC	MFL:	MFL:	FAULT CODE:	
2	025	120	MAINT EVT ID: 940712070	CAUSE:	ENG SHUTDOWN:	WHERE:

[FMCD] FREEZER IS INOP

=====

CAP	BLK	WUC	MFL:	MFL:	FAULT CODE:	
2	028	230	MAINT EVT ID: 940712071	CAUSE:	ENG SHUTDOWN:	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	HALF 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	655	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	67A	TADIL-A
048	1	67B	SECURE COMM	049	1	67B	JTIDS/NOBBER
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/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 DEBRIEF REPORT REF: 40801 10:48:00

BORTIE#	BORTIE DATE	BORTIE OF DAY	MISSION	LES STAT	SYS	BTP/CAUSE
735	94061	1	CPC054	2	B10	E
PILOT	CROW	DEBRIEFER	ENG SHUT TIME		TURNAROUND	
PEEBLES CAPT	KARL WILLIAM P					
F34	F34A2: EFF	PTS P088/ACHV	ALERT DAYS	EROS TOTAL	EROS RAD	

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

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

=====

CAP BLK	WUC	MFL:	MFL:	FAULT CODE:	
2	053 810	MAINT EVT ID: 940602065		CAUSE: ENG SHUTDOWN	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 SHUTDOWN	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
Date

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

AIRCRAFT 40331 DETAILED DESCRIPTION 00712 RTAFB 20/APR/94 10:48:00

SCORTEN SCORTIE DATE SCORTIE OF DAY MISSION LNA FRAT SYS OFF/CAUSE
735 94066 1 070052 2 310 F
PILOT COOK DELRIEFER ENG SPLIT TIME TURNAROUND SALT
SCHMIDT CAPT, HOSIER DONALD R
FSA FSA44: EFF PFS PFS6/ADRV ALERT DAYS ERCS TOTAL ERCS PAD

IFMDD: LD XNTR CNF 6 & DRIVER FAILURE PREVENTS ETRY.

NOE SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DNR AUC
01 07 MAR 94 0006 07 MAR 94 1038 10.5 073P

LAUNCH BASE: LTAD RECOVERY BASE: LTAD

=====
CAP BLK WUC NFL: NFL: FAULT CODE:
2 042 630 MAINT EVT ID: 940662067 CAUSE: ENG SHUTDOWN: WHERE:
IFMDD: LD XNTR CNF 6 & DRIVER FAILURE PREVENTS ETRY

=====
CAP BLK WUC NFL: NFL: FAULT CODE:
2 050 610 MAINT EVT ID: 940662068 CAUSE: ENG SHUTDOWN: WHERE:
IFMDD: LD XNTR CNF 6 & DRIVER FAILURE PREVENTS ETRY

=====
CAP BLK WUC NFL: NFL: FAULT CODE:
2 031 420 MAINT EVT ID: 940662065 CAUSE: ENG SHUTDOWN: WHERE:
IFMDD: LD XNTR CNF 6 & DRIVER FAILURE PREVENTS ETRY

=====
CAP BLK WUC NFL: NFL: FAULT CODE:
2 007 510 MAINT EVT ID: 940662066 CAUSE: ENG SHUTDOWN: WHERE:
REC 1 IFMDD: LD XNTR CNF 6 & DRIVER FAILURE PREVENTS ETRY

=====
CAP BLK WUC NFL: NFL: FAULT CODE:
2 032 440 MAINT EVT ID: 940662067 CAUSE: ENG SHUTDOWN: WHERE:
IFMDD: LD XNTR CNF 6 & DRIVER FAILURE PREVENTS ETRY

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	490	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	660	IFF TRANSPONDER
046	1	680	EMERGENCY COMM	047	1	690	TADIL-A
048	1	695	SECURE COMM	049	1	700	JTIDS/VOODOO
050	1	69H	ESB	051	1	710	RADIO NAV
052	1	720	R424R NAV	053	2	810	SURV RADAR
054	1	82H	CONSOLES	055	1	820	COMPUTERS/DB
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 10:48:00

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 SHUTDOWN: 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 SHUTDOWN: 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

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

CAP BLK WUC MFL: MFL: FAULT CODE:
2 031 420 MAINT EVT ID: 940532065 CAUSE: ENG SHTDWN: WHERE:
(FMC) FLT ENG AD VOLT METER STUCK AT 110 VOLTS

CAP BLK WUC MFL: MFL: FAULT CODE:
2 030 410 MAINT EVT ID: 940532066 CAUSE: ENG SHTDWN: WHERE:
(FMC) LGS RESISTIVITY AT RES/ON 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 ET 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 LGS NITROGEN LEAK

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

CAP BLK WUC MFL: MFL: FAULT CODE:
2 054 824 MAINT EVT ID: 940532071 CAUSE: ENG SHTDWN: WHERE:
(FMC) STA 20 HAS WAVY LINES DB1M&M H36 035

CAP BLK WUC MFL: MFL: FAULT CODE:
2 053 820 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 20SP 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	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	LIGHTING SYSTEM	033	1	450	HYDRAULIC SYSTEM
034	1	460	FUEL SYSTEM	035	1	470	OXYGEN
036	1	474	FIRE DET SYSTEM	037	2	510	INSTRUMENTS
038	1	520	AUTO PILOT	039	1	530	MALE ANAL SYSTEM
040	1	610	IFF COMM SYSTEM	041	1	620	IFF COMM SYSTEM
042	1	630	IFF COMM SYSTEM	043	2	640	AUDIO DIST SYSTEM
044	1	650	IFF ANT	045	1	655	IFF TRANSPONDER
046	1	660	EMERGENCY COMM	047	1	674	TABIL-A
048	1	676	SECURE COMM	049	1	690	TTIDS/VOODOO
050	1	691	RES	051	1	710	RADIO NAV
052	1	720	RADIO NAV	053	1	740	ENV/NAVAR
054	2	824	WINGDOES	055	2	830	COMPUTERS/DSR
055	1	830	EMERGENCY EJECT	057	1	834	OXYGEN MASK

CERTIFICATE *Reduced*

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12 May 94
Date,

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

AIRCRAFT 40351 DETAILED DEBRIEF SORTIE RECAP 29/APR/94 11:13:00

SORTIE# SORTIE DATE SORTIE OF DAY MISSION LOGS STAT SYS EFF/CAUSE
 735 94033 1 BPODAR 2 420 E
 PILOT CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
 CAPT BABCOCK DOORM MICHAEL E
 FSA FSPBA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

REMARKS: FLT ENG AC VOLT METER STUCK AT 115 VOLTS
 MOD SDR TAKEOFF SDR 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) LOG RESISTIVITY AT NEG/CM 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 LOG 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 DBTM&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 AND 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
 WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

12

AIRCRAFT AD351 DETAILED DEBRIEF SORTIE RECAP 22/APR/94 11:13:0

SORTIE# SORTIE DATE SORTIE OF DAY MISSION LBS STWT SYS EFF/CAUSE
 735 94049 1 BPO039 3 820 E
 PILOT CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
 CAPT KOTLOWSKI DOURM MICHAEL E
 FSA FSAGA: EFF PTS POSS/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

COULD NOT LOAD AACP WITH CONTROLLER "A"
 MOD SCH TAKEOFF SCH LANDING ACT TAKEOFF ACT LANDING DUR AUC
 01 18 FEB 94 2341 19 FEB 94 0946 10.1 A73
 LAUNCH BASE: LTAG RECOVERY BASE: LTAG

=====

CAP	BLK	WUC	MFL:	MFL:	FAULT CODE:	
3	055	B20	MAINT EVT ID: 940492066	CAUSE:	ENG SHUTDOWN:	WHERE:
(NMC) T.O. + .2 COULD NOT LOAD AACP 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 SHUTDOWN:	WHERE:
(FMD) IFF POWER SUPPLY PSU #1 KICKED OFF						

=====

CAP	BLK	WUC	MFL:	MFL:	FAULT CODE:	
2	054	B2H	MAINT EVT ID: 940492068	CAUSE:	ENG SHUTDOWN:	WHERE:
(FMD) 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 SHUTDOWN:	WHERE:
(FMD) PILOTS ADS I.C. CALL BUTTON STICKS AND IS DIFFICULT TO						
OPERATE						

SYSTEM CAPABILITY CODES				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	530	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-A
048	1	69E	SECURE COMM	049	1	695	JTIDS/WOODS
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/DSN
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

AIRCRAFT MODEL DETAILED DEBRIEF SORTIE RECORD 28/APR/94 10:56:00

SORTIE# 733 SORTIE DATE 94045 SORTIE OF DAY 1 MISSION 53D12 LOG STAT 2 SYS 520 EFF/CAUSE 2
 PILOT CAPT KOTLOWSKI CREW DEBRIEFER ENG SHUT TIME TURNAROUND SALT
 CAPT KOTLOWSKI DOURN MICHAEL E
 FSA FSABA: EFF FTS 052/ACHV ALERT DAYS ERCS TOTAL ERCS RAD

REMARKS: SERIES YAW DAMPNER WILL NOT TEST
 MOD SCH TAKEOFF ECH LANDING ACT TAKEOFF ACT LANDING DJR AUC
 01 17 FEB 94 0645 17 FEB 94 1146 3.1 AT3P
 LAUNCH BASE: EGUN RECOVERY BASE: LTAG

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 036 520 MAINT EVT ID: 940482063 CAUSE: ENG SHTDWN: WHERE:
 (FMCD) SERIES YAW DAMPNER WILL NOT TEST

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 036 520 MAINT EVT ID: 940482066 CAUSE: ENG SHTDWN: WHERE:
 (FMCD) 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:
 (FMCD) 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:
 2 034 82H MAINT EVT ID: 940482071 CAUSE: ENG SHTDWN: WHERE:
 (FMC) ST 20 DISPLAY NEVER CAME UP

CAP BLK WUC MFL: MFL: FAULT CODE:
 2 033 810 MAINT EVT ID: 940482072 CAUSE: ENG SHTDWN: WHERE:
 (FMC) MAIN BEAM STEERING DRIVER FOR ANT STICK 21 WILL NOT STAT ON LINE (ROTO 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	69A	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.

12 May 94
 Date

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

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 BAL NO	TIME CHG NO
552401	L552401 DTI FLIGHT CONTROL CABLES		

OPEN TOTOS AS OF: 94 APR 22

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

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

EQUIP-ID SERIAL NBR	STATUS CODE	DATE	ACCOMP BY	TOTO STATUS CODE NARRATIVE	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 BAL NO	TIME CHG NO
552401	L552401 DTI FLIGHT CONTROL CABLES		

OPEN TOTOS AS OF: 94 APR 22

EQP-DESIGNATOR PART NUMBER E003C A	TOTAL APPLICABLE 0032	TIME OF ACCOMPLISH 090 DAYS	LEVEL OF ACCOMP INTER	K/P/T
--	-----------------------------	-----------------------------------	-----------------------------	-------

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

EQUIP-ID SERIAL NBR	STATUS CODE	DATE	ACCOMP BY	TOTO STATUS CODE NARRATIVE	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

TCI PROCESSED.

VERSION DATE: 100292

12 May 94

[Signature]

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

U-3c

U-3d

1E-3-673

1E-3-673 ECR MODULE 7167-23110-1 WITH -2

OPEN TCTOS AS OF: 94 APR 22

ECR-DESIGNATOR
PART NUMBER
E0030 A

TOTAL
APPLICABLE
0032

TIME OF
ACCOMPLISH
270 DAYS

LEVEL
OF ACCOMP
INTER

K/P/T
F

SAFETY
NO

OWNING
WING
0552

STATION
CODE
WNYK

RECEIVED
DATE
93 JUL 06

REQ RML
DATE
93 APR 23

EQUIP-ID STATUS
SERIAL NBR CODE DATE

ACCOMP
BY

TCTO STATUS
CODE NARRATIVE

EST
M/HRS

ACTU
M/HRS

ORG MNEMONIC: 1025

A0001	11	94 JAN 04	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0355	11	93 SEP 13	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0356	11	93 OCT 21	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0556	11	93 SEP 29	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0558	11	93 OCT 21	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0002.
A0560	11	93 SEP 29	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0576	11	93 SEP 29	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0577	11	93 SEP 13	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A1406	11	94 APR 20	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0002.
A1604	11	93 NOV 17	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A1407	11	93 JUL 21	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A1605	11	93 JUL 21	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A1607	11	93 JUL 21	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0352	11	93 JUL 21	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0354	14	93 DEC 30	N/C/W EQUIP NOT AVAIL FOR WORK	004.5	0000.
A0351	11	93 JUL 16	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0002	11	94 JAN 04	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.

TCTO DATA CODE INQUIRY FOR 0178536

TCTO
NUMBER

TCTO
NARRATIVE

WET TTY
BAL CHG
NO NO

1E-3-673

1E-3-673 ECR MODULE 7167-23110-1 WITH -2

OPEN TCTOS AS OF: 94 APR 22

ECR-DESIGNATOR
PART NUMBER
E0030 A

TOTAL
APPLICABLE
0032

TIME OF
ACCOMPLISH
270 DAYS

LEVEL
OF ACCOMP
INTER

K/P/T
F

SAFETY
NO

OWNING
WING
0552

STATION
CODE
WNYK

RECEIVED
DATE
93 JUL 06

REQ RML
DATE
93 APR 23

EQUIP-ID STATUS
SERIAL NBR CODE DATE

ACCOMP
BY

TCTO STATUS
CODE NARRATIVE

EST
M/HRS

ACTUA
M/HRS

ORG MNEMONIC: 1025

A0005	11	93 SEP 29	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0137	11	93 SEP 29	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0138	11	93 NOV 27	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0001.
A0139	11	93 SEP 13	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.
A0007	11	93 NOV 17	N/C/W K/P ON ORDER NOT RECEIVED	004.5	0000.

CHRYSLER

TCTI PROCESSED. 100272

12 May 94

W. H. H.

THE FOLLOWING INSP

CHG/TCTOS WILL BE DUE ON A0351

IN 41230

JST NBR/ PART NUMBER	TCTO CODE OR EQUIP ID	SERIAL NBR	ON	INST	DUE TIME	OR DATE	JST NARRATIVE OR TCTO NARRATIVE
103011 A0351							940316 ACFT RECORDS REVIEW DUE
103012 A0351							940312 INSP WINDSHIELD RAIN REPELLENT
103013 A0351							940315 CAN HALL AT 1 CONTINUITY OR OF
103016 A0351							940311 INSURE PORTABLE WATER SYSTEM DIE
103019 A0351							950104 HOT PURGE LIQUID DRYER SYSTEM
103020 A0351							940711 INSP CU-225A URGENT, ANT. COUP SELF
103025 A0351							940404 ACFT WASH & LUBE DUE
03055 2730437		0000000026	A0351				951015 R&R SURGE DAMP ACCUMULATOR
POSITION ACFT		LOT #N/A					
03060 MS28700-2		0000000165	A0351				951015 R&R AUX ACCUMULATOR
POSITION LTOW		LOT #N/A					
03060 MS28700-2		0000000180	A0351				951015 R&R AUX ACCUMULATOR
POSITION RHWW		LOT #N/A					
03052 MS28700-5		0000000189	A0351				951016 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 PIN ANTENNA ABSORBER SHEETS
POSITION ACFT		LOT #N/A					
03054 65-6456-21		0000000515	A0351				950831 R&R STAB TRIM ACTUATOR
POSITION ACFT		LOT #N/A					
03074 1006950002		00000000681	A0351				951231 R&R AUTO LIFE RAFT SQUIB
POSITION RWIG		LOT #N/A					
03074 1006950002		10000000726	A0351				950708 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 7938174-53		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					
03068 D17666-103		0000929584	D2286				960630 R&R CYL ASSY (ESCAPE SLIDE) (36
POSITION RAFT		LOT #N/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.

12 May 94
Date

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

1. *Chlorophyll a* (Chl *a*)

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

Table 1. *Salmonella* serotypes and phage types isolated from the 1997-1998 salmonellosis outbreak in the Netherlands

ON

ON

1

12 May 94

THE FOLLOWING INSPECTIVE OBSERVATIONS WILL BE SUBMITTED TO THE COMMANDER, 13TH AIR FORCE, HONOLULU, HI

STAGE 4 PART 4 PART 100% LIFE TIME
 TO DIE OR BOLT TO SERIAL NBR ON OF DATE FOR NARRATIVE OR TOTO NARRATIVE

03017	A0351	15277.4	001 CHECK - HYDRAULIC SHUNT SYSTEM
03021	A0351	13509.4	CALIBRATE OF SAMPLE GEAR BOTH C
03022	A0351	17056.0	TYPE ANTENNA LOUDED W/AV BLKS
03015	A0351	13419.6	INSPECTION OF MAGNETIC TURNTABLE
03028	A0351	15477.2	01 ENGINE MOUNT REQUIRED NOT AN
03029	A0351	15475.2	02 ENGINE MOUNT REQUIRED NOT AN
03030	A0351	15474.2	03 ENGINE MOUNT REQUIRED NOT AN
03031	A0351	15475.2	04 ENGINE MOUNT REQUIRED NOT AN
03006	A0351	14030.0	C/W 01 PHASE INSPECTION
03001	A0351	14280.0	C/W 02 PHASE INSPECTION
03002	A0351	14490.0	C/W 03 PHASE INSPECTION
03003	A0351	13340.0	C/W 04 PHASE INSPECTION
03004	A0351	14750.0	C/W 05 PHASE INSPECTION
03005	A0351	15160.0	C/W 06 PHASE INSPECTION
03006	A0351	13410.0	C/W SECOND 01 PHASE INSPECTION
03007	A0351	13670.0	C/W SECOND 02 PHASE INSPECTION
03008	A0351	13370.0	C/W SECOND 03 PHASE INSPECTION
03009	A0351	13800.0	C/W SECOND 04 PHASE INSPECTION
03017	200359017	0000000009	A0351 17247.7 BAR APU GENERATOR
POSITION APU		LOT 8N/A	

*** CPU PROCESSED *** E

CERTIFICATE

I certify that the data on this report was obtained from a valid source and that the data is accurate and reliable. I am a member of the 13th Air Force and I am authorized to sign this certificate.

12 May 94
 [Signature]

[Signature]
 W. J. H.
 [Title]
 [Address]

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

SGT MARY PART NUMBER	TIME	DUE TIME	EXT. ID	EXT. DATE
TOTO CODE OR EQUIP ID	SERIAL	ISS	ON	OR DATE
SGT NARRATIVE OR TOTO NARRATIVE				

103021	A0351	13907.4	CALIBRATE RC SAMPLE ASBY BOTH C
103015	A0351	13627.6	INSPECTION OF MAGNETIC TURNABLE
103000	A0351	14030.0	C/W #1 PHASE INSPECTION
103003	A0351	13740.0	C/W #4 PHASE INSPECTION
103008	A0351	13570.0	C/W SECOND #2 PHASE INSPECTION
103009	A0351	13800.0	C/W SECOND #4 PHASE INSPECTION

***** DTU FRIESESSED *****

CERTIFICATE

12 May 94

Wm. T. Harris

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					COMPO- NENT CONTROL NO. (CCN)	EQUIP- MENT MODEL/ APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIP- MENT CODE	CUSTOMER IDENTI- FICATION	LAB	END ITEM MODEL/HULL NUMBER	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 SMPLE	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						
		4027			11710 286	R	2	0	0	0	0	3	0	1	1										SA					
25		4049			11762 308	R	3	0	0	0	1	4	1	2	0										SA					
22		4054			11786 332	R	2	0	0	0	1	4	0	1	0										SA					
35		4066			11796 352	R	2	0	0	0	1	4	1	1	0										SA					
1		4081			11829 375	R	5	0	0	0	1	6	0	2	1										SA					
13		4087			11950 496	R	5	0	0	0	1	6	0	3	0										SA					
57		4102			11970 516	R	3	0	0	0	0	4	1	1	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
WILLIAM L. HARRIS, Capt, USAF, MSC
 Evidence Custodian, Incirlik Air Base, Turkey

12 May 94
 Date

OIL ANALYSIS RECORD							T-33 660116		E-3A 77-0351		REMARKS #2																		
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	DATA INDEX	JULIAN DATE SAMPLE ANALYZED	RESPONSE TIME	LAST LAB RECOMMENDATION	HOURS MILES SINCE	SPECTROMETRIC ANALYSIS																		VALIDATION	LAB RECOMMENDATION	ACTION TAKEN	DISCREPANT ITEM	HOW MALFUNCTIONED	
					OVHL OIL CHG	FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD	MN	MO	V	ZN				
16	4080				0 0 N	0	0	0		0	0	0		0		0		1											
2	4081				19004 4 F	0	0	0		0	0	0		1		0		1											
11/2	4083				19113 13 R	0	0	0		0	0	1		0		0		1											
44	4137				19025 25 R	0	0	0		0		2		1		0		1											
58	4102				19045 45 R	1	0	0		0		2		1		1		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.H.
WILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

Date 12 May 94

REPLACES DA FORM 4161, OCT 73 AND NAREP FORM 13710/957 OCT 73 WHICH WILL BE USED

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

REPLACES DA FORM 1161 OCT 73 AND NAEP FORM 11710/957 OCT 73 WHICH WILL BE USED

[illegible]

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

OIL ANALYSIS RECORD						COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	CSCC-1030-RECEIVED	CUSTOMER IDENTIFICATION	LAB	END ITEM MODEL/HULL NUMBER	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			
					OVHL	OIL CHG	FE	AG	AL	BE	CR	CU	MG	NA	NI	PB	SI	SN	TI	B	BA	CD	MN	MO	V	ZN					
1	4055				2941	419		1	0	0		0	1	0	1		2		1						D						
17	4055				2946	425	R	1	0	0		0	1	0	1		0		1												
37	4056				2951	430	R	1	0	0		0	1	0	0		0		0												
5	4059				2991	476	R	1	0	0		0	1	0	1		1		1												
17	4060				2994	479	R	1	0	0		0	1	0	1		0		1												
21	4061				2998	483	R	2	0	0		0	1	0	2		0		1												
42	4063				3003	488	R	1	0	1		0	1	0	2		0		1												
0	4066				3006	491	R	0	0	0		0	0	0	1		0		1												
39	4067				3011	496		1	0	0		0	1	0	1		0		1												
5	4073				3015	500	R	1	0	0		0	1	0	1		1		1												
5	4079				3019	504	R	1	0	0		0	1	0	1		0		1												
	4079				3023	508	R	1	0	0		0	1	0	1		0		1												
38	4084				3028	513		1	0	0		0	0	0	0		0		1												
17	4085				3031	516	R	1	0	0		1	1	0	1		0		1												
32	4088				3034	519	R	2	0	0		0	1	0	1		0		1												
31	4089				3038	523	R	2	0	0		0	1	0	2		0		1												
5	4095				3042	527	R	2	0	0		0	1	0	2		1		1												

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

☆ U.S. Government Printing Office: 1985-460-983/23669

OIL ANALYSIS RECORD						COMPONENT CONTROL NO. (CCN)	EQUIPMENT MODEL/APL	681901	EQUIPMENT SERIAL NUMBER	TYPE EQUIPMENT CODE	DATE OF ANALYSIS	CUSTOMER IDENTIFICATION	LAB	F-15C	END ITEM MODEL/HULL NUMBER	9025	END ITEM SERIAL NUMBER	TYPE OIL	REMARKS															
MPLE 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								
0	4048				2585	200	R	1	0	0		0	0	0		0		0		1														
53	4049				2592	207	R	1	0	0		0	0	0		0		0		0														
13	4050				2595	210	R	1	0	0		0	0	0		0		0		1														
28	4051				2599	214	R	1	0	0		0	0	0		0		0		1														
31	4053				2604	229	R	1	0	0		0	0	0		1		0		0														
46	4055				2607	232	R	1	0	0		0	0	0		0		0		1														
22	4061				2611	236	R	1	0	0		0	0	0		1		0		1														
43	4063				2615	243	R	1	0	0		0	0	0		1		0		1														
12	4066				2618	246	R	1	0	0		0	0	0		1		0		1														
11	4067				2621	252	R	1	0	0		0	0	0		0		0		1														
26	4068				2628	256	R	1	0	0		0	0	0		1		0		1														
●	4079				2632	260	R	1	0	0		0	1	0		1		1		1														
12	4079				2634	262	R	1	0	0		0	1	0		1		0		1														
37	4084				2639	267	R	2	0	0		0	1	0		2		0		1														
18	4085				2642	270	R	1	0	0		0	1	0		1		1		1														
33	4088				2652	273	R	1	0	0		0	1	0		0		0		0														
32	4089				2655	283	R	1	0	0		0	1	0		1		1		1														

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: 7 May 94

NUMBER	DATA INDEX	JULIAN OF 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
		41089			2655	283		1	0	0		0	1	0		1		1		1									A				
		41085			2659	287	R	1	0	0		0	1	0		1		1		1									H	A			
3		1100			2664	292	R	1	0	0		0	0	0		0		0		0									H	A			
		4101			2667	295	R	1	0	0		0	0	0		0		0		0									H	A			
2		103			2670	298	R	1	0	0		0	0	0		1		0		0									H	A			
3		4104			2674	302	R	1	0	0		0	0	0		0		0		0									H	A			

68 190 ~~187~~

SPECTROMETRIC ANALYSIS

9025 #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

FCN 30054-14

REC. W/C : NAMP

WCE	WORK	INSTR	SCUPE	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 TCIC 17-15-1060		

TCTO NUMBER	DATA CODE	TYPE	SAFETY	ACC CODE	STATUS	CGDE	STATUS	DATE	TCTO NARRATIVE
12P3-2ALG135-528	1205670				17			94996	TCTO 12P3-528 MOD OF AN/ALG-135
1F-15-1162	0175522				02			93243	TCTO 1162 AIRCREW EYE/RESPIR PROTECTION
1F-15-1221	0177019				03			94068	TCTO 1F-15-1221 INST OF VLS JUMPER CABLE
1F-15-1197	0177010				03			93243	REWORK ACESII EJECT SEAT PAN LID & SUR KI
L930002	L930002				01			93222	L930002 JFS HYD START ENERGY INT LINE
1F-15-1242	0172615	*			03			93214	OTI INSP/REP OF 20/30/35 AMP CIRCUIT BRE
L920023	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	*			03			93243	INSP OF F-15 PARACHUTE CONT. ASSEMBLIES
1F-15-1246	0178641	*			03			93214	OTI FOR CORRECT HLG AXLE NUT RET RING
13A5-56-542	1300748				02			93085	OTI OF ENV. SENSORS ACES II EJECT SEAT
13A5-56-545	1300731				02			93225	13A5-56-545 INSP OF ALL ACESII LAP BELTS
L930005	L930005				02			93225	L930005 OTI OF INT. DRIVE GEN (IDG) WIRI
1F-15-1237	0178555				11			93169	1F-15-1237 F-15 MAIN LAND GEAR/DOOR SELE
1F-15-1021	0170440				02			93235	1F-15-1021, UTL, HYD, PRES, TRANSM, WIRI
L930006	L930006				02			93242	L930006 OTI OF WIRE BUNDLE BUNDLE W57219
1F-15-1210	0177569				02			93295	1F-15-1210 F-15 LIMITED DUTY MODE DEACT.
L930007	L930007				02			93292	L930007 OTI OF HORIZ STAB CTRL CABLES 2
F-15-1229	0178318				01			94068	1F-15-1229 REM OF IFF KIR-1A/TSEC TRANS.
F-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-15-1267	0179505				02			94041	1F-15-1267 OTI A/C ELECTRICAL HARNESS
1F-15-977	0168858	*			11			94062	FIRE DETECT SYSTEM - AFTERBURNER SYSTEM
1F-15-1039	0171292	*			11			94062	WING/CFT TRANSFER PUMP FAILURE WARNING
F-15-1040	0171510				17			94094	TEWS-UPGRADE-AN/ALG-125(V) FOR BAND-3 CO
F-15-1135	0174895				11			94062	ENGINE INTERCHANGABILITY
1F-15-1265	0179527				01			94109	OTI ALR300 3 AL3135 (RANC3)1553 AUX SHC

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

~~VERSION DATE: 03 APR 77~~

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

PREPARED 94 APR 22 09:46

EQUIPMENT REVIEW REPORT

PCN 36054-14

INPUT IMAGE : TREA1HAMPHYNNYYYY A9025A025

REQ. W/C : NAMP

INSPECTION NARRATIVE	TYPE INT	FREQ	SYM	ACTIVE	IND	POS	INSP NO	DUE TIME	TYPE INSP	JST NBR
30MO ACFT WEIGHT & BALANCE 53FS F-15	N	000036			1			96267	3	53073
40MO DOI INSP FUSE INT FUEL TANK FOAM IAW:1F-15A-6	N	000045			1			97214	3	53040
60MO DOI INSP INT FUSE FUEL TANK FOAM IAW:1F-15A-6	N	000060			1			97214	3	53041
TODAY AVTR CLEAN AND INSPGCT.	D	000090			1			94153	0	53730
400HR L/R WING TIP CLOSURE RISS (P/W-53A115105)	N	000400			1			03771.4	A	53019

*** NO TIME CHANGE DATA FOUND ***

TCTO NUMBER	TCTO DATA	TCTO CODE	TCTO TYPE	SAFE INC	K/P/T REQ	ACC CODE	ISSUE DATE	RECIS DATE	RECVD DATE	STATUS DATE	DUE DATE	TCTO STATUS	CODE	NARRATIVE
1223-2AL04135-526	1205670	N			K-P		08235	96235	96236	94696	17	94136		TCTO 1223-526 MOD OF AN/A
1F-15-1237	0178555	N					93035	96016	93159	93169	11	00000		1F-15-1237 F-15 MAIN LAND
1F-15-1233	0178831	N					94035	96039	94970	94240	11	00000		1F-15-1233 JF6 EXHAUST DU
1F-15-1263	0175455	N					93344	94344	94003	94063	12	00000		1F-15-1263 UPDT OF OPER F
1F-15-977	0163853	N		*	K		91305	95305	92247	94042	11	00000		FIRE DETECT SYSTEM - AFTE
1F-15-1039	0171292	N		*	K		91277	95275	92055	94052	11	00000		WING/CFT TRANSFER PUMP FA
1F-15-1060	0171910	N					95235	96235	92257	94996	17	94276		TEWS UPGRADE AN/ALQ-135(V
1F-15-1135	0174395	N			K		92101	99275	92286	94062	11	00000		ENGINE INTERCHANGEABILITY

OPEN MAINTENANCE EVENTS

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

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

EVENT-ID	HMC	WDC	SYM	DEF/UNS	MAINTENANCE	DISCREPANCY	NARRATIVE
941043001		/		UNS	(CRG) MULTIRACTOR 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 Rpt ACFT 79-0025*

which is kept in my records system.

7 May 94
DateWILLIAM L. HARRIS, Capt, USAF, MSC
Evidence Custodian, Incirlik Air Base, Turkey

PCN 36054-14

PAGE 2

VERSION DATE: 03 AUG 93

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	RESCISSION DATE	DATA CODE
-F100-840	01	11 OCT 91		15 SEP 94	15 NOV 94	0215099
-F100-761	03	19 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	0214872
-F100-765	01	05 AUG 91		04 NOV 96	03 JAN 97	0213955
-F100-749	03	19 OCT 90		01 AUG 95	30 SEP 95	0213395

21 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~~

TO 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

11 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 <u>Engine Automated Recorder Engine # E1901</u> which is kept in my records system. <u>7 May 94</u> Date <u>W. L. Harris</u> 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

COMPO- NENT CONTROL NO. (CCN)		EQUIP- MENT MODEL/ APL	EQUIPMENT SERIAL NUMBER	TYPE EQUIP- MENT CODE	CUSTOMER IDENTI- FICATION	LAB	END ITEM MODEL/HULL NUMBER	END ITEM SERIAL NUMBER	TYPE OIL	REMARKS
F15C		681754					025412			

SAMPLE NUMBER	DATE 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							
		2 mar		A	2501	490		1	0	0		0		0		0		2									A							
		31 mar		A	2506	492		1	0	0		0	1	0		0		2									A							
		5 apr		A	2509	496		2	0	0		0	1	0		1		2									A							
		4096		A	2516	513	R	1	0	0		0	1	0		1	1	3								SA								
32		4098			2520	517	R	1	0	0		0	0	0		1	1	2								TA	A							
27		4100			2524	521	R	1	0	0		0	0	0		0	0	2								HA	A							
4		4101			2526	523	R	1	0	0		0	0	0		1	0	2								SA	A							
6		4101			2529	526	R	1	0	0		0	0	0		1	0	2								SA	A							
6		4102			2530	527	R	1	0	0		0	0	0		1	1	3								TA	A							
21		4103			2535	532	R	1	0	0		0	0	0		1	2	2								SA	A							
1		4104			2539	536	R	1	0	0		1	0	0		1	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. W. L. Harris WILLIAM L. HARRIS, Capt, USAF, MSC Evidence Custodian, Incirlik Air Base, Turkey																																		

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.

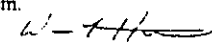
W. L. Harris
Date

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	CUSTOMER IDENTIFICATION	LAB	END ITEM MODEL/HULL NUMBER	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						
		30 MAR		A	3209 66		1	0	0		0	0	0	0	1	0									A					
		31 MAR		A	3210 69		1	0	0		0	0	0	0	2	0								A						
		15 APR		A	3212 72		1	0	0		0	0	0	1	1	0								A						
		4096		A	3219 77		1	0	0		0	0	0	1	4	1								A						
31		4098			3223 81	R	1	0	0		0	0	0	1	3	1								A						
26		4100			3227 85	L	1	0	0		0	0	0	1	1	0								A						
13		4101			3228 86	R	1	0	0		0	0	0	0	1	1								A						
45		4101			3231 89	21	1	0	0		0	0	0	0	1	1								A						
F		4102			3232 90	R	1	0	0		0	0	0	0	2	0								A						
84		4103			3237 95	R	1	0	0		0	0	0	1	1	0								A						
10		4104			3241 99	L	1	0	0		0	0	0	1	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 99

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 *Equipment Review Report HCFE 94-0025* which is kept in my records system.

Date

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

PREPARED 94 APR 22 03:40

EQUIPMENT REVIEW REPORT

PCN 36054-14

INPUT IMAGE : TREATMAMPNYNNYYYY A9025A4025

REG. W/C : MAMP

WCE	WORK	INSTL	EQUIP	COMPLETED							
NBR	CENTER	POSIT	ID	DATE	HOURS	WUC	PART-NUMBER	WORK	CENTER	NARRATIVE	
003	CATS		A4025	94102	2230	74F50	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	WORK	INSTL	EQUIP	COMPLETED						
NBR	CENTER	POSIT	ID	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	WORK	INSTL	EQUIP	COMPLETED						
NBR	CENTER	POSIT	ID	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		D	X	UNS	(OPC) GAGAB/JFS FUEL LEAK PRIOR TO TAXI.		

WCE	WORK	INSTL	EQUIP	COMPLETED						
NBR	CENTER	POSIT	ID	DATE	HOURS	WUC	PART-NUMBER	WORK	CENTER	NARRATIVE
001	KAEL		A4025			245	NO PART NUMBER	(OPC) GAGAB/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	93258	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 GUN IAW:1F-15A-6

14-DAY-AFFT-RECORDS-CHECK.

200HR NDI UPPER 24" VERT STAB TORQUE BOX ASSY.

200HR NDI UPPER 24" VERT STAB FWD BOX ASSY.

600HR NDI TAP TEST L/R VERT STAB (63A230051)

600HR NDI UPPER 24" VERT STAB FWD BOX ASSY

600HR NDI UPPER 24" VERT STAB TORQUE BOX ASSY. (P/N

600HR NDI L/R VERT STAB FWD TORQUE BOX (P/N-52A230

4000HR NDI IAW:1F-15A-6, PG:2-A-012A, PAR:31 A/B/D

4000HR NDI MAIN ENGINE MOUNT ASSY BODY (P/N-63A5000

90DAY CLEAN & INSP MAU-12 IAW:1F-15C-6 PG:2-A-026

90DAY INSP & LUDE LAU-106 IAW:1F-15A-6 PG:2-A-026

D 000000

D 000014

H 000200

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H 000600

H 000500

H 004000

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D 000090

D 000090

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94166

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53015

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53052

PCN 30054-14

PAGE 378

VERSION DATE: 03 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

Equp Review Rpt ACFT 84-0025

which is kept in my records system.

8 May 97

Date

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: TREATMAMPNYYYYY A9025A4025

REQ. WFL: HAMP

INSPECTION NARRATIVE

TYPE	INT	FREQ	SYM	ACTIVE	IND	POS	INSP NO	DUE TIME	TYPE INSP	JST	NER
D		000090		1				94165	B		53054
H		000048		1				97070	B		53040
H		000030		1				99070	B		53041
M		000036		1				96277	B		53078
D		000090		1				94163	D		53730
H		000400		1				03199.2	A		53019

*** NO TIME CHANGE DATA FOUND ***

TCTO NUMBER	T C T O DATA 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
1F-15-1253	0172391	M				94003	94059	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	94036	93169	93169	11	00000	1F-15-1237 F-15 MAIN LAMP
1F-15-1165	0175532	M				91156	94159	91270	94090	09	00000	TCTO 1165 INSP/RMVL AYK1C
1F-15-977	0168856	M	*	K		94305	95305	92247	94662	11	00560	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	95275	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

940000263 H X UNS PMLISER TORR.

WCC WORK INSTL EQUIP COMPLETED

WCC CENTER POSIT ID DATE HOURS WCC PART-NUMBER WORK CENTER NARRATIVE

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-F100-765	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	
<i>Engine Automated Record on Engine # E1754</i>	
which is kept in my records system.	
<i>7 May 94</i>	W. L. HARRIS, Capt, USAF, MSC
Date	Evidence Custodian, Incirlik Air Base, Turkey

***** DATE REPORT *****

FOR

ME069811

TO NUMBER	STATUS CODE	DATE	EXPIRE DATE	GROUNDING DATE	RESCISSON DATE	DATA CODE
AF100-833	15	05 JUN 91		02 DEC 95	31 JAN 96	0214871

1 PROCESSED.

VERSION DATE: 100392

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