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01 13 141406Z JUN 94 PP PP UUUU AA ZYUW

NO

CDRATCOM ST LOUIS MO//AMSAT-C-XS//

AIG 6713

AIG 9004

AIG 9042

AIG 8708

AIG 7515

*SOF  
4H-1-94-03  
T/R blades  
TB-1-1520-210-20-24*

DCM APMO OZARK AL//DCMDS-RCQA//

ASF42 81ST ARCOM DOBBINS AFB GA

CDR4THBN228THAVN SOTO CANO HO//AVN-AMO//

102DARMY SCOTT AFB IL//AFRC-AMO-ASF-IL//

AMEMBASSY ROME IT//ODC/PASS TO HQ MFO//

DIRAAOD HOLLOMAN AFB NM//STEW-AM/GE GS//

CDRAMCCOM PICATINNY ARSENAL NJ//AMSMC-AV-D//

JOHNSON CONWORLDSVCINC KWAJALEIN NQ//PAR2//

USCS CNAC OKLAHOMA CITY OK//AMI//

FORCE COMMANDER SINAI MFO HQ IL TELEX 606342535

//PASS TO SSO AVSM/SO AIR//

USDOCO LANDSOUTHEAST IEMIR TU//AV//

DPRO BELL HELICOPTER FORT WORTH TX//DCMDS-RBQ/RBDF//

CDROSAC FT BELVOIR VA//ANAV-OS/ANAV-RW-M/ANAV-CR//

CP: AMSAT-W-AU, AMSAT-W-AA, AMSAT-R-ECH, AMSAT-R-EIH,  
AMSAT-I-IAF, AMSAT-I-ILNO(RAAF), AMSAT-I-LOS(AOC)

JIM WILKINS, AEROSPACE ENGINEER MINIMIZE CONSIDERED  
AMSAT-C-XS, X2085

NORBERT R. KNEIPP, X2178

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NO

USDAO RANGOON BM

USDAO COLOMBO CE

USDAO SUVA FJ

DSA NEW DELHI IN

USDAO ROME IT

USDAO ANTANANARIVO MA

CDRATCOM ST LOUIS MO//AMSAT-C-XS//

SAO KUALA LUMPUR MY

USDAO KATHMANDU NP//SAO//

UNCLAS

SUBJECT - SAFETY-OF-FLIGHT MESSAGE, TECHNICAL, RCS CSGLD-1860(R1), ALL UH-1 SERIES AIRCRAFT, TAIL ROTOR BLADE ONE TIME INSPECTION, (UH-1-94-03) (TB 1-1520-210-20-24).

NOTE - THIS IS A SAFETY-OF-FLIGHT MESSAGE AND HAS NOT BEEN TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSEES. ADDRESSEES SHOULD IMMEDIATELY RETRANSMIT THIS MESSAGE TO ALL SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR CONCERNED. THE RETRANSMITTAL SHALL REFERENCE THE MESSAGE.

ACTION ADDRESSES WILL IMMEDIATELY VERIFY THIS TRANSMISSION TO COMMANDER, ATCOM, ATTN: AMSAT-C-XS (SOF COMPLIANCE

CF: AMSAT-W-AU, AMSAT-W-AA, AMSAT-R-ECH, AMSAT-R-EIH, AMSAT-I-IAF, AMSAT-I-ILNO(RAAF), AMSAT-I-LOS(AOC)

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ACCORDANCE WITH PARAGRAPH 10D.

NOTE - DEPOTS SHOULD PROVIDE A COST ESTIMATE AND A REQUEST FOR FUNDING TO PERFORM THIS INSPECTION TO AMSAT-I-SDP DSN 693-5628/2372 FAX DSN 693-5638. UPON COMPLETION OF THE INSPECTION PROVIDE A COST ESTIMATE AND A REQUEST FOR FUNDING AS REQUIRED FOR DEMILITARIZATION OF CONDEMNED ITEMS.

2. TASK/INSPECTION SUSPENSE DATE - WITHIN NEXT 10 FLIGHT HOURS/14 DAYS.
3. REPORTING COMPLIANCE SUSPENSE DATE - NO LATER THAN 6 JULY 1994 PER PARA 14A OF THIS MESSAGE.
4. SUMMARY OF PROBLEM -

A. BELL HELICOPTER HAS INFORMED THE U.S. ARMY THAT A GERMAN MILITARY UH-1 AIRCRAFT HAS EXPERIENCED A TAIL ROTOR BLADE FATIGUE FAILURE. THE FAILURE OCCURRED AT THE BOND LINE BETWEEN THE LEADING EDGE ABRASIVE STRIP AND BLADE SKIN APPROXIMATELY 2 INCHES OUTBOARD OF THE DOUBLER FORWARD FINGERS. THE FATIGUE FAILURE WAS DUE TO A REWORK OPERATION DURING MANUFACTURING THAT CAUSED SURFACE SCRATCHES IN A HIGHLY STRESSED AREA OF THE BLADE. BELL HAS IDENTIFIED 76 CERTAIN SERIAL NUMBERS WHICH MAY HAVE BEEN REWORKED AND THUS

CF: AMSAT-W-AU, AMSAT-W-AA, AMSAT-R-ECH, AMSAT-R-EIH, AMSAT-I-IAF, AMSAT-I-ILNO(RAAF), AMSAT-I-LOS(AOC)

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NO

ARE SUSCEPTIBLE TO FATIGUE FAILURE.

B. FOR MANPOWER/DOWNTIME AND FUNDING IMPACTS SEE PARA  
12.

C. THE PURPOSE OF THIS MESSAGE IS TO REQUIRE A ONE  
TIME INSPECTION OF UH-1 TAIL ROTOR BLADES AND REMOVAL OF 76  
CERTAIN SERIAL NUMBERED BLADES FROM SERVICE.

5. END ITEMS TO BE INSPECTED - ALL UH-1 SERIES AIRCRAFT.

6. ASSEMBLY COMPONENTS TO BE INSPECTED

NOMENCLATURE	PART NO.	NSN
BLADE, ROTARY RUDDER	204-011-702-15	1615-00-472-7308

7. PARTS TO BE INSPECTED - SEE PARAGRAPH 6 ABOVE.

8. INSPECTION PROCEDURES -

A. INSPECT INSTALLED TAIL ROTOR BLADES AND TAIL ROTOR  
BLADES IN STOCK AT ALL LEVELS. INSPECT TAIL ROTOR BLADE

DATA PLATE FOR THE FOLLOWING SERIAL NUMBERS:

A-2912	A-3166	AFS-13872	ATR-73199
A-3009	A-3175	AFS-14179	ATR-73296
A-3024	A-3195	AFS-14199	ATR-73595
A-3025	A-3255	AFS-15276	ATR-73735
A-3026	A-3272	AFS-15699	ATR-73804

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AMSAT-I-IAP, AMSAT-I-ILNO(RAAF), AMSAT-I-LOS(AOC)

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A-3048	A-3277	AFS-16725	ATR-73844
A-3052	A-3280	AFS-16943	ATR-73853
A-3057	A-3294	AFS-17327	ATR-73855
A-3060	A-3295	AFS-18633	ATR-73856
A-3063	A-3294	AFS-18637	ATR-73879
A-3066	A-3297	AFS-18652	ATR-73881
A-3068	A-3323	AFS-18675	ATR-73944
A-3083	A-5889	ATR-71596	ATR-73949
A-3085	A-8458	ATR-71816	ATR-73951
A-3118	AFS-13460	ATR-71864	ATR-73982
A-3126	AFS-13594	ATR-71973	ATR-74059
A-3130	AFS-13635	ATR-72883	ATR-74060
A-3134	AFS-13678	ATR-72902	ATR-74588
A-3135	AFS-13709	ATR-73037	ATR-74622

B. IF THE SERIAL NUMBER ON THE BLADE IS ONE LISTED,  
 PROCEED TO PARA 9. IF SERIAL NUMBER IS NOT LISTED, THE  
 INSPECTION IS COMPLETE.

9. CORRECTION PROCEDURES - IMMEDIATELY REMOVE SUSPECT TAIL  
 ROTOR BLADE AND REPLACE WITH A SERVICEABLE BLADE. VERIFY  
 THAT REPLACEMENT BLADE SERIAL NUMBER IS NOT ONE LISTED IN

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 AMSAT-I-IAP, AMSAT-I-ILNO(RAAF), AMSAT-I-LOS(AOC)

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NO

WILL BE CHARGED TO AVUM.

B. ESTIMATED TIME REQUIRED TO INSPECT -

- (1) TOTAL OF .5 MANHOURS USING 1 PERSON.
- (2) TOTAL OF .5 HOURS DOWNTIME FOR ONE END ITEM.

C. ESTIMATED TIME REQUIRED TO REPLACE -

- (1) TOTAL OF 3 MANHOURS USING 2 PERSONS.
- (2) TOTAL OF 3 HOURS DOWNTIME FOR ONE END ITEM.

D. ESTIMATED COST IMPACT OF STOCK FUND ITEMS TO THE  
FIELD - 1675.00 DOLLARS PER BLADE.

NOMENCLATURE	PART NO.	NSN	COST EA.
TAIL ROTOR	204-011-702-15	1615-00-472-7308	1675.00

BLADE TOTAL COST PER AIRCRAFT = 3350.00 DOLLARS.

E. TB/MWOS TO BE APPLIED PRIOR TO OR CONCURRENTLY WITH  
THIS INSPECTION - N/A.

F. PUBLICATIONS WHICH REQUIRE CHANGE AS A RESULT OF  
THIS INSPECTION - N/A.

13. REFERENCES -

- A. TM 55-1520-210-23-1.

14. RECORDING AND REPORTING REQUIREMENTS -

- A. REPORTING COMPLIANCE SUSPENSE DATE (AIRCRAFT) -

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AMSAT-I-IAP, AMSAT-I-ILNO(RAAF), AMSAT-I-LOS(AOC)

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