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*UH-1-93-ASAM-04
T/R D/S
Heat shield*

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SYNOPSIS UH-1-93-ASAM-04 AVIATION SAFETY ACTION MESSAGE, MAINTENANCE MANDATORY, ALL UH-1 SERIES AIRCRAFT. ONE TIME INSPECTION OF TAIL ROTOR DRIVESHAFT HEAT SHIELD FOR DEBONDED LINER, (TB 1-1520-242-20-55). 071234Z JUL 93, LEO SMITH, AMSAT-C-XS, X2258. :CDRATCOM ST LOUIS MO //AMSAT-C-XS// TO :AIG 6713 :AIG 9004 :AIG 9042 :AIG 8708 :AIG 7515 :DCM APMO OZARK AL //DCMDS-RCQA// :AMEMBASSY BOGOTA CO //NAS/MLO// :NOAA OFFICE OF AIRCRAFT OPERATIONS MIAMI FL :ASF42 81ST ARCOM DOBBINS AFB GA :CDR4THBN228THAVN SOTO CANO HO //AVN-AMO// :102DARMY SCOTT AFB IL //AFKB-AC-CJ-ASF// :AMEMBASSY ROME IT //ODC/PASS TO HQ MFO// :USDAO MEXICO CITY MX //MLO/NAS// :DIRAAOD HOLLOMAN AFB NM //STEW-AA/GE GS// :CDRAMCCOM PICATINNY ARSENAL NJ //AMSMC-AV-D// :JOHNSON CONWORLDSVCINC KWAJALEIN NQ //PAR2// :AFSAC FLO WRIGHT PATTERSON AFB OH //KS/SN/SP/VE// :USCS CNAC OKLAHOMA CITY OK //AMI// :FORCE COMMANDER SINAI MFO HQ IL TELEX 606342535 //PASS TO SSO AVSM/SO AIR// :USLOT TUNIS TS //AIR FORCE SECTION// :USDOCO LANDSOUTHEAST IZMIR TU //AV// :DPRO BELL HELICOPTER FORT WORTH TX //DCMDS-RBQ/RBDF// :CDROSAC FT BELVOIR VA //ANAV-OS/ANAV-RW-M/ANAV-CR// :WALLOPS FLIGHT FACILITY NASA WALLOPS ISLAND VA //CODE 831.2 AIRCRAFT QA// INFO :ARS MCCLELLAN AFB CA //LGM// :CDRUSASDC WASHINGTON DC //CSSD-ZA// :SEC STATE WASHINGTON DC //NEA/MFO// :US CUSTOMS SERVICE WASHINGTON DC //AVIATION :OPERATIONS// :AFSOC HURLBURT FIELD FL //LGMW// :NAVAVSYSCOM DET PMA PENSACOLA FL //PMA225// :NAVAVNDEPOT PENSACOLA FL //310B// :WR-ALC ROBINS AFB GA //LUHA// :HQ AMC SCOTT AFB IL //LG/DO/DOV/SE/DOT/LGM/DOX// :CDR FT BRAGG NC //AFZA-GT-OM// :CDR HQ 1ST COSCOM FT BRAGG NC //LOGOPS AVN SECT :AFVH-DC-L// :CDR WHITE SANDS MISSILE RANGE NM //STEW-AA// :DISC PHILADELPHIA PA //QEBB-JU// :CDR LSE AVIATION IZMIR TU //LSE// :HQ ACC LANGLEY AFB VA //DOH/LGRC// :PMSW VIFS WARRENTON VA //SFAE-IEW-SG// XMT :USDAO DHAKA BG :USDAO RANGOON BM :USDAO COLUMBO CE :USDAO SUVA FJ :DSA NEW DELHI IN :USDAO ROME IT :USDAO ANTANANARIVO MA :SAO KUALA LUMPUR MY :USDAO KATMANDU NP //SAO//

ACCT : TEXT

Subject**AVIATION SAFETY ACTION MESSAGE, MAINTENANCE MANDATORY,**

RCS CSGLD-1860(R1), ALL UH-1 SERIES AIRCRAFT. ONE TIME INSPECTION OF TAIL ROTOR DRIVESHAFT HEAT SHIELD FOR DEBONDED LINER (UH-1-93-ASAM-04) (TB 1-1520-242-20-55).

NOTE - THIS IS AN AVIATION SAFETY ACTION MESSAGE ISSUED PER AR 95-3, CHAPTER 5 REVISION VIA MESSAGE HQ AVSCOM, AMSAV-KSOF, 1811900 Z MAY 1990, SUBJECT: CHANGE TO AR 95-3, CHAPTER 5, SAFETY OF FLIGHT MESSAGES. THIS MESSAGE 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 ADDRESSEES WILL IMMEDIATELY VERIFY THIS RETRANSMISSION TO COMMANDER, ATOCOM, ATTN - AMSAT-C-KS (SOF COMPLIANCE OFFICER).

Priority Classification

- A. AIRCRAFT IN USE - UPON RECEIPT OF THIS MESSAGE THE CONDITION STATUS SYMBOL OF THE CITED AIRCRAFT WILL BE CHANGED TO A RED DASH //--//. THE RED DASH //--// MAY BE CLEARED WHEN THE INSPECTION OF PARA 8 BELOW IS COMPLETED. THE AFFECTED AIRCRAFT SHALL BE INSPECTED AS SOON AS PRACTICAL BUT NO LATER THAN THE TASK/INSPECTION SUSPENSE DATE. FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS MESSAGE WITHIN THE TIME FRAME WILL CAUSE THE STATUS SYMBOL TO BE UPGRADED TO A RED //X//.
- B. AIRCRAFT IN DEPOT MAINTENANCE - AIRCRAFT WILL NOT BE ISSUED UNTIL COMPLIANCE WITH THIS ASAM HAS BEEN COMPLETED.
- C. AIRCRAFT UNDERGOING MAINTENANCE - AIRCRAFT WILL NOT BE RELEASED UNTIL COMPLIANCE WITH THIS ASAM MESSAGE HAS BEEN COMPLETED.
- D. AIRCRAFT IN TRANSIT -
- (1) SURFACE/AIR SHIPMENT - WITHIN 30 FLIGHT HOURS OR 45 DAYS OF ARRIVAL.
 - (2) FERRY STATUS - INSPECT AT FINAL DESTINATION.
- E. MAINTENANCE TRAINERS (CATEGORY A, B AND C) - N/A.
- F. COMPONENT/PARTS IN STOCK INCLUDING WAR RESERVES AT ALL LEVELS (DEPOT AND OTHERS) - UPON RECEIPT OF THIS MESSAGE THE ITEM LISTED IN PARAGRAPH 6 BELOW SHALL BE PLACED IN CONDITION CODE //3// AND RETAGGED WITH A MATERIEL CONDITION TAG/LABEL - CONDEMNED (GREEN TAG) DD FORM 1577. THE REMARKS BLOCK MUST REFERENCE INSPECTION REQUIRED PER THIS MESSAGE (TB 1-55-1520-242-20-55). UPON COMPLETION OF THE REQUIRED INSPECTION, ITEMS WILL BE RETAGGED EITHER SERVICEABLE (YELLOW TAG) DD FORM 1574 OR UNSERVICEABLE/REPARABLE (GREEN TAG) DD FORM 1577-2 DEPENDENT UPON THE RESULTS.
- NOTE - DEPOTS THAT DO NOT HAVE THE CAPABILITY TO INSPECT THE SUBJECT ASSEMBLIES IN ACCORDANCE WITH THIS MESSAGE, CONTACT THE LOGISTICAL POINT OF CONTACT. DO NOT ISSUE UNTIL THIS AVIATION SAFETY ACTION MESSAGE HAS BEEN COMPLIED WITH AND YOU HAVE BEEN NOTIFIED WHICH ARE SERVICEABLE.

Task/Inspection Suspense Date

- WITHIN 30 FLIGHT HOURS /45 DAYS.

Reporting Compliance Suspense Date

- N/A.

Summary of Problem

A. A UH-1 AIRCRAFT MISHAP HAS OCCURRED IN WHICH THE HEAT SHIELD, WHICH PROTECTS THE #1 TAIL ROTOR DRIVESHAFT DURING ENGINE FIRES, WAS DAMAGED AND ULTIMATELY CAUSED A TOTAL FAILURE OF THE DRIVESHAFT. AN ALUMINUM LINER, WHICH WAS BONDED TO THE INNER SKIN OF THE HEAT SHIELD, CORRODED AND BECAME DEBONDED. THIS LINER FELL DOWN AND RUBBED THE DRIVESHAFT UNTIL THE DRIVESHAFT FAILED AND TAIL ROTOR DRIVE WAS LOST. ONLY 173 HEAT SHIELDS WERE MANUFACTURED WITH THE ALUMINUM LINER. IT IS NOT KNOWN WHEN THESE HEAT SHIELDS WERE PUT INTO SERVICE OR HOW MANY STILL REMAIN ON AIRCRAFT OR IN SUPPLY, A SEARCH HAS TO BE MADE. THE HEAT SHIELD IN QUESTION, P/N 205-060-922-1, WAS ORIGINALLY USED ON UH-1D AIRCRAFT BUT MAY BE FOUND ON UH-1H AND V MODELS ALSO. NOT ALL P/N 205-060-922-1 HEAT SHIELDS HAVE THE ALUMINUM LINER. AN INSPECTION PROCEDURE HAS BEEN DEVELOPED TO IDENTIFY THE SUSPECT HEAT SHIELDS WITH THE LINERS SO THAT THEY CAN BE REMOVED FROM SERVICE.

B. THE PURPOSE OF THIS MESSAGE, AS STATED ABOVE, IS TO PERFORM A ONE TIME INSPECTION FOR SUSPECT HEAT SHIELDS AND REMOVE THOSE LISTED IN PARAGRAPH -- FROM SERVICE.

End Items To Be Inspected

- ALL UH-1 SERIES AIRCRAFT.

Assembly Components to be Inspected

NOMENCLATURE	PART NUMBER	NSN
HEAT SHIELD	205-060-922-1	1560-00-992-6520
	205-060-922-5	1615-00-400-7300

Parts to be Inspected

- AS NOTED BELOW

Inspection Procedures

A. GAIN ACCESS TO HEAT SHIELD.

NOTE

THE HEAT SHIELD IN QUESTION IS AN OLD DESIGN.

THE CURRENT HEAT SHIELD BEING ISSUED ARE GOOD, P/N

205-060-922-33, NSN: 1615-00-400-7300, 205-060-906-5, AND NSN 1560-00-992-6520.

IDENTIFICATION OF UNITS INSTALLED IS ESSENTIAL FOR THE INSPECTION.

B. DETERMINE WHICH DESIGN HEAT SHIELD IS INSTALLED.

(1) IF THE HEAT SHIELD HAS A METAL BELLOWS (APPROXIMATELY 4.5 INCHES IN LENGTH) ON THE FORWARD END, IT IS THE NEWER DESIGN AND NO FURTHER INSPECTION IS REQUIRED.

(2) IF THE HEAT SHIELD HAS NO BELLOWS, PROCEED WITH THE REMAINDER OF THIS INSPECTION.

C. INSPECT LOWER SURFACE OF HEAT SHIELD FOR THE PRESENCE OF A FLATTENED AREA, ON WHICH THE FOLLOWING STAMPED DATA MAY APPEAR:

HI TEMP INSUL.
205-060-922-1
205-DA-1393-1, CHG 1

IF THIS INFORMATION IS PRESENT, PERFORM CORRECTION PROCEDURE IAW PARA 9 BELOW. IF NOT, CONTINUE WITH INSPECTION.

D. GAIN ACCESS TO THE AFT OPENING IN HEAT SHIELD, ON THE ENGINE FIRE WALL, JUST FORWARD OF THE #1 HANGER BEARING MOUNT.

E. USING A FLASHLIGHT, INSPECT THE INNER SURFACE OF THE HEAT SHIELD FOR SIGNS OF A DEBONDED LINER. IF A DEBONDED LINER IS FOUND, INSPECT TAIL ROTOR DRIVESHAFT FOR DAMAGE.

NOTE

TO DISTINGUISH THE LINER FROM THE INNER SKIN, THE SURFACE OF THE LINER IS SMOOTH COMPARED TO THE DIMPLED SURFACE OF THE INNER AND OUTER SKIN.

Correction Procedures

- A. REPLACE OR REPAIR DAMAGED DRIVESHAFTS AS REQUIRED.
- B. REPLACE ALL HEAT SHIELDS WHICH EXHIBIT THE MARKINGS LISTED IN PARA 8C ABOVE.
- C. REPLACE ALL HEAT SHIELDS WHICH HAVE A SMOOTH LINER INSTALLED, WHETHER THE LINER IS LOOSE OR NOT.

Supply/Parts and Disposition

A. PARTS REQUIRED - ITEMS CITED IN PARAGRAPH 6 MAY BE REQUIRED TO REPLACE DEFECTIVE ITEMS.

B. REQUISITIONING INSTRUCTIONS - REQUISITION REPLACEMENT PARTS THROUGH NORMAL SUPPLY CHANNELS USING NORMAL SUPPLY PROCEDURES. ALL REQUISITIONS SHALL USE PROJECT CODE "CST" PER THIS MESSAGE.

NOTE

PROJECT CODE "CST" IS REQUIRED TO TRACK SOF COSTS IN ATTEMPT TO ESTABLISH A FUTURE FUND TO REIMBURSE UNITS FOR STOCK FUND EXPENDITURES CREATED BY SOF MESSAGES.

C. BULK AND CONSUMABLE MATERIALS - N/A.

D. DISPOSITION - DEMILITARIZE ANY PART WHICH DOES NOT MEET INSPECTION CRITERIA.

E. DISPOSITION OF HAZARDOUS MATERIAL - N/A.

11. SPECIAL TOOLS, JIGS AND FIXTURES REQUIRED - N/A.

Application

A. CATEGORY OF MAINTENANCE - AVUM. AIRCRAFT DOWNTIME WILL BE CHARGED TO AVUM MAINTENANCE.

B. TIME REQUIRED -

(1) TOTAL OF .5 MANHOURS USING 1 PERSON.

(2) TOTAL OF .5 HOURS DOWNTIME FOR ONE END ITEM.

C. ESTIMATED COST IMPACT OF STOCK FUND ITEMS TO THE FIELD - N/A.

D. TB/MNOS TO BE APPLIED PRIOR TO OR CONCURRENTLY WITH THIS INSPECTION - N/A.

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

References

- N/A.

Recording and Reporting Requirements

- A. REPORTING COMPLIANCE SUSPENSE DATE (AIRCRAFT) - UPON ENTERING REQUIREMENTS OF THIS MESSAGE ON DA FORM 2408-13-1 ON ALL SUBJECT MDS AIRCRAFT, FORWARD A PRIORITY MESSAGE, DATAFAX OR E-MAIL TO COMMANDER, ATCOM, ATTN: AMSAT-C-XC *SOF COMPLIANCE OFFICER*, PER AR 95-3. DATAFAX NUMBER DSN 693-2064 OR COMMERCIAL 314/263-2064. E-MAIL ADDRESS IS *AMSATCXS [AT SIGN] ST-LOUIS-EMH4.ARMY.MIL*. THE REPORT WILL CITE THIS MESSAGE NUMBER, DATE OF ENTRY IN DA FORM 2408-13-1, THE AIRCRAFT MISSION DESIGN SERIES AND SERIAL NUMBER OF AIRCRAFT IN NUMERICAL ORDER.
- B. TASK/INSPECTION REPORTING SUSPENSE DATE (AIRCRAFT) - N/A.
- C. REPORTING COMPLIANCE SUSPENSE DATE (SPARES) - N/A.
- D. TASK/INSPECTION REPORTING SUSPENSE DATE (SPARES) - N/A.
- E. THE FOLLOWING FORMS ARE APPLICABLE AND ARE TO BE COMPLETED IN ACCORDANCE WITH DA PAM 738-751, 15 JUN92.
- (1) DA FORM 2408-13, AIRCRAFT STATUS INFORMATION RECORD.
 - (2) DA FORM 2408-13-1, AIRCRAFT INSPECTION AND MAINTENANCE RECORD.
 - (3) DA FORM 2408-15, HISTORICAL RECORD FOR AIRCRAFT.
 - (4) DD FORM 1574 (YELLOW TAG) FOR IN STOCK ITEMS THAT ARE DETERMINED TO BE SERVICEABLE. (MARK INSPECTED SERVICEABLE IN ACCORDANCE WITH THIS AVIATION SAFETY ACTION MESSAGE).
 - (5) DD FORM 1575 FOR IN STOCK ITEMS IN SUSPENDED STATUS AWAITING INSPECTION. (MARK SUSPENDED IN ACCORDANCE WITH THIS ASAM.)
 - (6) DD FORM 1577 (RED TAG) UNSERVICEABLE (CONDEMNED) FOR IN STOCK ITEMS THAT ARE DETERMINED TO BE UNSERVICEABLE. (MARK UNSERVICEABLE IN ACCORDANCE WITH THIS AVIATION SAFETY ACTION MESSAGE.)
 - (7) DD FORM 1577-2 (GREEN TAG) UNSERVICEABLE (REPARABLE) FOR IN STOCK ITEMS THAT ARE DETERMINED TO BE REPARABLE. (MARK UNSERVICEABLE IN ACCORDANCE WITH THIS ASAM.)

Weight and Balance

- N/A.

Points of Contact

- A. TECHNICAL POINT OF CONTACT FOR THIS MESSAGE IS MR. FRED KERSHAW, AMSAT-R-ECH, DSN 693-1683 OR COMMERCIAL 314/263-1683.
- B. LOGISTICAL POINT OF CONTACT FOR THIS MESSAGE IS MR. CHARLES W. ELKINS, AMSAT-W-AU, DSN 693-2004 OR COMMERCIAL 314/263-2004.
- C. FORMS AND RECORDS POINT OF CONTACT FOR THIS MESSAGE IS MS. ANN WALDECK, AMSAT-I-MDM, DSN 693-1758 OR COMMERCIAL 314/263-1758.
- D. SAFETY POINT OF CONTACT FOR THIS MESSAGE IS MR. LEO V. SMITH, AMSAT-C-XS, DSN 693-2258 OR COMMERCIAL 314/263-2258.
- E. FOREIGN MILITARY SALES (FMS) RECIPIENTS REQUIRING CLARIFICATION OF ACTION ADVISED BY THIS MESSAGE SHOULD CONTACT MM4 JAY NANCE/MR. RON VAN REES, AMSAT-I-IA, DSN 693-3826/3659 OR COMMERCIAL 314/263-3826/3659.
- F. AFTER HOURS CONTACT ATCOM COMMAND OPERATIONS CENTER (COC)