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Date: 6/1/99 8:00 AM
Priority: Normal
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TO: DAVE WARDALL at AVIATION_MGMT
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Subject: UH-1-99-03

----- Message Contents -----

01 19 281815Z MAY 99 00 PP UUUU AA ZYUW

NO

FROM

:CDRAMCOM REDSTONE ARSENAL AL//AMSAM-SF-A//
TO
:AIG 8881
:AIG 9004
:AIG 7515
:AIG 7471
:AIG 12124
:DCMC AFMO OZARK AL//DCMDE-AOA//
:CDRAMCOM REDSTONE ARSENAL AL//AMSAM-RA-FO//
:ASF42 81ST ARCOM DOBBS AFB GA
:DEPT OF STATE AIR WING PATRICK AFB FL
:CDRCBDCOM ABERDEEN PROVING GROUND MD//AMSCB-OPA//
:USAATC ABERDEEN PROVING GROUND MD//STEAC-CO-P//
:RAYTHEON RANGE SYSTEMS ENGINEERING KWAJALEIN MH//PAT2//
:STEW'S ARMY AIR HOLLOWAY AFB NM//STEW'S-NRS-F//
:CDRDPG DUGWAY UT//STEDP-AVN//
:USDOCO LANDSOUTHREAST IEMIR TU//AV//
:WALLOPS FLIGHT FACILITY NASA WALLOPS ISLAND VA
: //CODE 831.2 AIRCRAFT QA//

INFO

:HQAFSPCCSS PETERSON AFB CO//LGM/SEF//
:CDRMDW WASHINGTON DC//ANLG-LS//
:SECDEF WASHINGTON DC//USDP-DSAA//
:SECSTATE WASHINGTON DC//NEA/INL//
:AFSOC HURLBURT FIELD FL//LGMW//
:HQ PACAFDPIC HICKAM AFB HI//DO/LGM//
:HQAMC SCOTT AFB IL//LG/LGF/LGQ/DO/DOV/DOX/SEE//
:89AW ANDREWS AFB MD//LG//
:89OG ANDREWS AFB MD//CC/OGV//
:1HS ANDREWS AFB MD//CC/DO//
:NAVAVNDEPOT CHERRY PT NC//H1-1SST//
:CDR FT BRAGG NC//AF2A-GT-OM//
:CDR HQ 1ST COSCOM FT BRAGG NC//LOGOPS AVN SECT//
:FAA AERONAUTICALCEN OKLAHOMA CITY OK//AFS-620//
:JISC PHILADELPHIA PA//QEBB-JU//
:CDR LSE AVIATION IEMIR TU//LSE//
:HQ AETC RANDOLPH AFB TX//DO/DOVI/SEE//
:FAA SOUTHWEST RGN HQ FORT WORTH TX//ASW-100//
:CDRUSASMDC ARLINGTON VA//CSSD/ZA//
:FMSW VHEFS WARRENTON VA//SFAE-IEM-SG//

*UH-1 fin map
X-ray
UH-1-99-03*

TEXT

:UNCLAS

SUBJECT - SAFETY OF FLIGHT MESSAGE, TECHNICAL, RCS CSGLD-1860(R1), ALL UH-1 SERIES AIRCRAFT, MANDATORY INITIAL AND RECURRING INSPECTION OF TAIL BOOM VERTICAL FIN SPAR ASSEMBLY, UH-1-99-03 (TS 1-1520-210-30-01).

NOTE - THIS IS A SAFETY OF FLIGHT MESSAGE ISSUED IAW AR 95-1, CHAPTER 6, 1 SEP 97. 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 ADDRESSES WILL IMMEDIATELY VERIFY THIS TRANSMISSION TO CDR, AMCOM, ATTN: AMSAM-SF-A (SOF COMPLIANCE OFFICER).

1. PRIORITY CLASSIFICATION -

NOTE - SEE AR 95-1, PARA 6-6A, FOR EXCEPTION AUTHORITY OF MAJOR COMMANDERS.

A. AIRCRAFT IN USE - SAFETY OF FLIGHT MESSAGE UH-1-99-02 PLACED ALL UH-1 SERIES AIRCRAFT ON A RED //X// CONDITION STATUS SYMBOL. THE RED //X// IMPOSED BY UH-99-02 MAY BE CLEARED WHEN BOTH THE INSPECTION OF PARAGRAPH 8 AND CORRECTION OF PARAGRAPH 9 OF THIS MESSAGE ARE COMPLETED.

B. AIRCRAFT IN DEPOT MAINTENANCE - SAME AS PARAGRAPH 1A.

D. AIRCRAFT IN TRANSIT - SAME AS PARAGRAPH 1A.

E. MAINTENANCE TRAINERS - SAME AS PARA 1A.

F. COMPONENT/PARTS IN STOCK AT ALL LEVELS (DEPOT AND OTHERS) INCLUDING WAR RESERVES - UPON RECEIPT OF THIS MESSAGE THE MATERIAL CONDITION TAGS OF ALL ITEMS IN ALL CONDITION CODES LISTED IN PARAGRAPH 6 SHALL BE ANNOTATED TO READ "SOF UH-1-99-03 (TS 1-1520-210-30-01) MANDATORY INSPECTION OF TAIL BOOM VERTICAL FIN SPAR ASSEMBLY, NOT COMPLIED WITH."

(1) WHOLESALE STOCK - REPORT RECEIPT OF THIS MESSAGE IAW PARAGRAPH 14C(1). UPON RECEIPT OF THIS MESSAGE ALL SERVICEABLE ITEMS (CONDITION CODES //A//, //B//, //C//, //D//, AND //E//) LISTED IN PARAGRAPH 6 LOCATED IN WHOLESALE DEPOT STORAGE SHALL BE PLACED IN CONDITION CODE //J// AND TAGGED WITH A SUSPENDED TAG/LABEL - MATERIAL, DD FORM 1576/DD FORM 1576-1. DO NOT REMOVE ORIGINAL CONDITION TAGS. REPORT COMPLIANCE WITH THIS MESSAGE IAW PARAGRAPH 14D(1).

(2) RETAIL STOCK - REPORT RECEIPT OF THIS MESSAGE IAW PARAGRAPH 14C(2). UPON RECEIPT OF THIS MESSAGE COMMANDERS AND OTHERS MAINTAINING RETAIL STOCK AT INSTALLATION LEVEL AND BELOW SHALL CONTACT THE SUPPORTED AVIATION UNIT TO PERFORM THE INSPECTION REQUIRED BY PARAGRAPH 8 AND THE CORRECTION PROCEDURES OF PARAGRAPH 9 ON DISCREPANT MATERIEL. DISPOSITION OF DISCREPANT MATERIEL WILL BE IAW PARAGRAPH 10D. REPORT COMPLIANCE WITH THIS MESSAGE IAW PARAGRAPH 14D(2).

G. COMPONENTS/PARTS IN WORK (DEPOT LEVEL AND OTHERS) - ITEMS LISTED IN PARAGRAPH 6 IN WORK WILL NOT BE ISSUED UNTIL COMPLIANCE WITH THIS MESSAGE.

2. TASK/INSPECTION SUSPENSE DATE - IMMEDIATELY UPON RECEIPT OF THIS MESSAGE.

3. REPORTING COMPLIANCE SUSPENSE DATE - NO LATER THAN 15 JUNE 1999 IAW PARA 14A OF THIS MESSAGE.

4. SUMMARY OF PROBLEM -

A. SAFETY OF FLIGHT (SOF) MESSAGE UH-1-99-02 IMMEDIATELY SOUNDED ALL UH-1 SERIES AIRCRAFT DUE TO SUSPECTED CRACKS IN THE VERTICAL FIN SPAR ASSEMBLY. A SPAR CRACK IS SUSPECTED TO HAVE BEEN THE CAUSE OF A RECENT UH-1V MISHAP WHERE THE VERTICAL FIN SEPARATED FROM THE AIRCRAFT DURING FLIGHT. SOF MESSAGE UH-1-99-02 ALSO STATED THAT AN INSPECTION PROCEDURE WAS CURRENTLY BEING PROTOTYPED FOR ISSUANCE IN A FOLLOW-ON SOF MESSAGE WHICH WOULD SPECIFY THE REQUIREMENTS FOR RETURNING AIRCRAFT TO NORMAL FLIGHT

STATUS. THOSE INSPECTION PROCEDURES HAVE BEEN PROTOTYPED AND FINALIZED. THE INSPECTION PROCEDURES REQUIRE A MANDATORY INITIAL AND RECURRING INSPECTION OF THE VERTICAL FIN SPAR ASSEMBLY USING VISUAL, TAP HAMMER, AND X-RAY INSPECTION TECHNIQUES. BECAUSE THESE INSPECTION PROCEDURES REQUIRE FIGURES THAT DETAIL THE AREA TO BE INSPECTED AND THE SETUP TO PERFORM THE INSPECTION, THEY CANNOT BE PROVIDED IN THIS MESSAGE. THE INSPECTION PROCEDURES HAVE BEEN PROVIDED TO ALL LOGISTICS ASSISTANCE REPRESENTATIVES (LARS) AND ARNG AVCRADES. DATAFAX AND E-MAIL WILL BE UTILIZED IN PROVIDING THESE INSTRUCTIONS TO UNITS THAT DO NOT HAVE ACCESS TO A LAR. THESE PROCEDURES WILL ALSO BE AVAILABLE IN TB 1-1520-210-30-1 AND ON THE UTILITY HELICOPTERS WEB PAGE.

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

C. THE PURPOSE OF THIS MESSAGE IS TO REQUIRE A MANDATORY INITIAL AND RECURRING INSPECTION OF THE VERTICAL FIN SPAR ASSEMBLY FOR CRACKS.

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

6. ASSEMBLY COMPONENTS TO BE INSPECTED -

NOMENCLATURE	PART NO.	NSN
TAIL BOOM ASSEMBLY	205-032-800-71	1560-00-483-1273
TAIL BOOM ASSEMBLY	205-032-800-101	1560-01-160-6623
TAIL BOOM FIN ASSY	205-030-899-109	1560-00-482-9100

7. PARTS TO BE INSPECTED -

NOMENCLATURE	PART NO.	NSN
TAIL BOOM FIN SPAR	205-030-846-49	1560-00-428-7321
TAIL BOOM FIN SPAR	205-030-846-7	1560-00-431-8495

8. INSPECTION PROCEDURES -

A. UNITS THAT HAVE ACCESS TO A LAR - OBTAIN A COPY OF THE INSPECTION FROM YOUR LAR. ARNG UNITS CONTACT THEIR SUPPORTING AVCRADE FOR A COPY / ASSISTANCE.

B. UNITS THAT DO NOT HAVE ACCESS TO A LAR - CONTACT THE LOGISTICS OR TECHNICAL POINTS OF CONTACT IN PARAGRAPH 16. PROVIDE YOUR DATAFAX NUMBER OR E-MAIL ADDRESS AND A COPY OF THE INSPECTION PROCEDURES WILL BE DATAFAXED OR E-MAILED IMMEDIATELY. DURING NON-DUTY HOURS, CONTACT THE CCG POC LISTED IN PARAGRAPH 16H.

C. THE PROCEDURES WILL ALSO BE AVAILABLE ON THE UTILITY HELICOPTERS WEB PAGE, THE URL ADDRESS IS: "WWW.UHPO.REDESTONE.ARMY.MIL". GO TO PUBLICATIONS, THEN NEWS AND LOOK FOR UH-1 TAILBOOM INSPECTION PROCEDURES. ACCESS TO THE WEB SITE IS CONTROLLED. PROCEDURES TO OBTAIN LOGIN ID ARE ACCESSIBLE BY CLICKING THE REGISTER BUTTON.

D. PERFORM INSPECTIONS AS DIRECTED IN THE INSPECTION PROCEDURES PROVIDED SEPARATELY AND ALSO IN TB 1-1520-210-30-1. INSPECTION INTERVALS STATED IN THE INSPECTION PROCEDURES ARE AS FOLLOWS:

NOTE

PERSONNEL PERFORMING THIS RADIOGRAPHIC PROCEDURES SHALL HAVE TRAINING THROUGH THE EDUCATION AND TRAINING COMMAND (AETC) (PREVIOUSLY AT MILLINGTON, TENNESSEE, OR CURRENTLY AT PENSACOLA, FLORIDA) OR DOD AND NON-DOD PERSONNEL SHALL BE A CERTIFIED LEVEL II RADIOGRAPHER IAW MAS410. FOR ASSISTANCE CONTACT THE NDI POINT OF CONTACT AT PARA 16H.

NOTE

THE USE OF ALTERNATE RADIOGRAPHIC EQUIPMENT MUST BE APPROVED BY THE NDI POINT OF CONTACT AT PARA 16H. ALTERNATE RADIOGRAPHIC EQUIPMENT MUST MEET THE REQUIRED 2-2T SENSITIVITY REQUIREMENTS.

NOTE

THE 75 HOUR INSPECTION WILL BE CARRIED AS A WRITE-UP ON THE DA FORM 2408-18. WHEN THE TAIL BOOM ASSEMBLY IS MOVED FROM ONE AIRCRAFT TO ANOTHER (CONTROLLED EXCHANGE) THE DA FORM 2408-5-1 FOR THE TAIL BOOM

ASSEMBLY WILL BE ANNOTATED TO SHOW THE HOURS REMAINING UNTIL THE NEXT 75 HOUR INSPECTION TO INSURE THAT THE DA FORM 2408-18 IS UPDATED CORRECTLY.

ULLS -A UNITS WILL USE INSPECTION NUMBER A170.

- (1) X-RAY INSPECTION - IMMEDIATELY UPON RECEIPT OF THIS MESSAGE AND RECURRING EVERY 75 HOURS THEREAFTER.
- (2) TAP HAMMER INSPECTION - IMMEDIATELY UPON RECEIPT OF THIS MESSAGE AND RECURRING THEREAFTER AT EVERY PHASE INSPECTION.
- (3) VISUAL INSPECTION OF SPAR - IMMEDIATELY UPON RECEIPT OF THIS MESSAGE AND RECURRING AFTER THE LAST FLIGHT OF EACH DAY THEREAFTER.

9. CORRECTION PROCEDURES -

NOTE

REPORT RESULTS (BOTH WITH CRACKS AND WITH NO CRACKS FOUND) OF THE INITIAL AND RECURRING X-RAY INSPECTIONS TO THE LOGISTICAL POC IN PARA. 16C IAW PARA 14B. THIS INFORMATION IS VITAL TO ONGOING EFFORTS TO EXTEND THE X-RAY INSPECTION INTERVAL.

A. IF ANY CRACK IS CONFIRMED ON THE VERTICAL FIN SPAR ASSEMBLY, THE TAIL BOOM ASSEMBLY SHALL BE CONSIDERED DISCREPANT AND SHALL NOT BE USED.

B. IF NO CRACKS ARE DETECTED DURING THE INITIAL INSPECTION, THE AIRCRAFT MAY BE RETURNED TO FULLY MISSION CAPABLE STATUS. INSTITUTE RECURRING INSPECTIONS AS DIRECTED IN THIS MESSAGE USING THE WRITTEN INSPECTION PROCEDURES PROVIDED SEPARATELY AND ALSO IN TB 1-1520-210-30-1. AIRCRAFT MAINTENANCE RECORDS SHALL RETAIN THE LAST FIVE X-RAY FILMS DOCUMENTING THE RESULTS OF THESE INSPECTIONS.

C. IF DURING THE COURSE OF THIS INSPECTION, OTHER DISCREPANCIES (CORROSION, DEBONDING, ETC.) ARE FOUND, REPAIR OR REPLACE COMPONENT/ASSEMBLY AS ALLOWABLE, IAW LIMITS SPECIFIED IN TM 55-1520-210-23-1.

10. SUPPLY/PARTS AND DISPOSITION -

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

B. REQUISITIONING INSTRUCTIONS - REQUISITION REPLACEMENT PARTS USING NORMAL SUPPLY PROCEDURES. ALL REQUISITIONS SHALL USE PROJECT CODE (CC 57-59) "XFT", "X-RAY-FOXTROT-TANGO".

NOTE

PROJECT CODE "XFT", "X-RAY-FOXTROT-TANGO" IS REQUIRED TO TRACK AND ESTABLISH A DATA BASE OF STOCK FUND EXPENDITURES INCURRED BY THE FIELD AS A RESULT OF SOP ACTIONS.

C. BULK AND CONSUMABLE MATERIALS RADIOGRAPHIC FILM, KODAK, 35MM X 200 FT., INDUSTRIAL X-RAY, M SPEED REDIPACK (COST: APPROX. \$150 PLUS S/H). RADIOGRAPHIC FILM CAN BE PURCHASED BY CONTACTING THE KODAK GOVERNMENT SALES OFFICE AT 1-800-828-6203. CREDIT CARD ORDER AND OVERNIGHT SHIPMENT ARE AVAILABLE.

D. DISPOSITION - HOLD ANY DISCREPANT PART/COMPONENT PENDING DISPOSITION INSTRUCTIONS FROM LOGISTICAL POINT OF CONTACT IN PARAGRAPH 16C.

E. DISPOSITION OF HAZARDOUS MATERIAL - IAW ENVIRONMENTAL PROTECTION AGENCY DIRECTIVES AS IMPLEMENTED BY YOUR SERVICING ENVIRONMENTAL COORDINATOR (AR 200-1). EXPOSED FILM NOT MAINTAINED IN HISTORICAL RECORDS SHOULD BE RECYCLED FOR SILVER RECOVERY.

11. SPECIAL TOOLS AND FIXTURES REQUIRED - SEE INSTRUCTIONS PROVIDED SEPARATELY.

12. APPLICATION -

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

B. ESTIMATED TIME REQUIRED -

- (1) TOTAL OF 8 MAN-HOURS USING 2 PERSONS.
- (2) TOTAL OF 4 HOURS DOWNTIME FOR ONE END ITEM.

C. ESTIMATED COST IMPACT TO THE FIELD - \$50.00

:
TEXT
:UNCLAS
SUBJECT: PM UTILITY HELICOPTERS STATUS UPDATE NUMBER 3 ON
GROUNDING OF UH-1 AIRCRAFT DUE TO SUSPECTED CRACKS IN TAILBOOM
VERTICAL FIN

NOTE
THIS IS NOT A SAFETY OF FLIGHT OR AVIATION
SAFETY ACTION MESSAGE

REFERENCE :

A. CDRAMCOM 281815Z MAY 99, SUBJECT: SAFETY OF FLIGHT MESSAGE,
TECHNICAL, RCS CSGLD-1860(R1), ALL UH-1 SERIES AIRCRAFT,
MANDATORY INSPECTION OF TAIL BOOM VERTICAL FIN SPAR ASSEMBLY
(UH-1-99-03)

1. REFERENCE A SOF MESSAGE PROVIDED THE DETAILS OF THE TAIL FIN
INSPECTION PROCEDURES IN ORDER TO RETURN UH-1 AIRCRAFT TO FLIGHT
STATUS.

2. FEEDBACK FROM VARIOUS SITES PERFORMING THE RADIOGRAPHIC
INSPECTION INDICATES THAT SOME PROBLEMS HAVE BEEN ENCOUNTERED
WITH EXPOSURE NUMBER 3. INSPECTORS HAVE BEEN HAVING DIFFICULTY
GETTING THE COUNTERSUNK RIVET (RIVET ABOVE PENETRAMETER) DUE TO
INTERFERENCE WITH AN ANGLE SUPPORT WHICH TIES THE RIGHT AND LEFT
SPAR CAPS TOGETHER. A RADIOGRAPH EXPOSING TWO-THIRDS OF THE
COUNTERSUNK RIVET HAS BEEN ESTABLISHED AS THE MINIMUM CRITERIA
FOR DETERMINING IF A CRACK IS PRESENT. DIFFICULTY HAS ALSO BEEN
REPORTED WITH THE DAILY VISUAL INSPECTION (USING 10X GLASS) IN
WHAT WAS PREVIOUSLY DEFINED AS THE THREE RIVET AREA FORWARD OF
THE ATTACHMENT THE 90 DEGREE GEAR BOX MOUNT.

3. THE TB (1-1520-210-30-01) RESULTING FROM (AND SUPERCEDING)
REFERENCE A SOF MESSAGE, CONTAINS ADDITIONAL GUIDANCE FOR THESE
INSPECTIONS. SPECIFIC GUIDANCE HAS BEEN ADDED FOR DEALING WITH
A SITUATION IN WHICH A MINIMUM OF TWO-THIRDS OF THE COUNTERSUNK
RIVET CANNOT BE SEEN ON EXPOSURE NUMBER 3. FURTHER, THE AREA OF
INTEREST FORWARD OF THE ATTACHMENT OF THE 90 DEGREE GEAR BOX
MOUNT SUBJECT TO THE DAILY VISUAL INSPECTION (WITH 10X GLASS) HAS
BEEN REDUCED. THIS TB HAS BEEN SENT TO PRINT AND SHOULD BE
RECEIVED IN A FEW WEEKS. IN THE MEANTIME, A COPY OF THE TB HAS
BEEN POSTED ON THE UTILITY HELICOPTERS WEB PAGE OR CAN BE
OBTAINED VIA EMAIL FROM THE TECHNICAL OR LOGISTICS POINTS OF
CONTACT LISTED IN THE REFERENCE A MESSAGE.

4. IN ADDITION, WE HAVE RECEIVED COMMENTS CONCERNING ACCESS TO
THE UTILITY HELICOPTERS WEB SITE. PLEASE UNDERSTAND THAT THE
SITE IS CONSIDERED TO CONTAIN SENSITIVE INFORMATION AND
APPROPRIATE SECURITY PROCEDURES HAVE BEEN INSTITUTED TO PROTECT
THAT LEVEL OF INFORMATION. THERE MAY BE SEVERAL DAYS DELAY IN
REVIEWING ACCESS REQUESTS, DETERMINING THE INDIVIDUAL'S NEED TO
KNOW AND CLEARANCE, AND ASSIGNING THEIR LOGIN/PASSWORD. I EXPECT
THAT THE WEBSITE WILL BE USED AS A COMMUNICATION MEDIUM IN THE
FUTURE AND WOULD ENCOURAGE ALL UH-1 UNITS TO ESTABLISH THEIR
ACCESS NOW TO PRECLUDE FUTURE DELAYS.

5. POINT OF CONTACT, WALLY NEWCOMB, APM UH-1, DSN 645-8769, CML
(256)955-8769, EMAIL "WALLY.NEWCOMB@UH.REDSTONE.ARMY.MIL".