

204-011-136-1
UH-1-84-06
m/R P/L
clevis

BT

UNCLAS
SECTION 01 OF 02

NO - THIS IS A SAFETY OF FLIGHT, EMERGENCY, IMMEDIATE GROUNDING MESSAGE. RELEASED IN ACCORDANCE WITH AR 95-1A, DATED 1 MAY 1980 AND HAS NOT, REPEAT, 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 TRANSMITTAL SHALL REFERENCE THIS MESSAGE. ACTION ADDRESSEES

WILL IMMEDIATELY VERIFY THIS RETRANSMISSION TO COMMANDER, AVSCOM.

PAGE 03 RUCIFRDLOAD UNCLAS
ATTN - DRSAV-MPSD.

SUBJECT - SAFETY OF FLIGHT EMERGENCY MESSAGE IMMEDIATE GROUNDING ALL SERIES UH-1 AIRCRAFT (EXCEPT C/M MODELS) (UH-1-A4-06) TB 55-1520-242-20-B CONCERNING CLEVIS OF PITCH CHANGE LINK.

1. SUMMARY - PRELIMINARY ANALYSIS OF A RECENT UH-1H HELICOPTER ACCIDENT INDICATED A FATIGUE FAILURE OF THE PITCH CHANGE LINK CLEVIS P/N 204-011-136-1, FSN 5340-00-839-3934. THIS IS THE ONLY KNOWN FAILURE OF THIS PART DURING THE MANY YEARS AND MILLIONS OF OPERATIONAL FLYING HOURS OF THE UH-1 SERIES HELICOPTER. ANALYSIS REVEALED THAT THIS PART HAD BEEN REPLATED AND THE FAILURE MAY HAVE BEEN INITIATED BY HYDROGEN EMBRITTLEMENT.

2. PURPOSE OF MESSAGE - TO PERFORM AN IMMEDIATE ONE TIME VISUAL INSPECTION (ON THE HELICOPTER WITHOUT ANY DISASSEMBLY) TO DETERMINE IF INSTALLED CLEVIS'S SHOW ANY INDICATION OF HAVING BEEN REPLATED. IF ANY EVIDENCE OF REPLATING IS PRESENT, PART WILL BE IMMEDIATELY REMOVED FROM SERVICE.

3. PRIORITY CLASSIFICATION - IMMEDIATE GROUNDING UPON RECEIPT OF THIS MESSAGE THE CONDITION STATUS OF THE SUBJECT AIRCRAFT WILL BE CHANGED TO A RED //X//, UNTIL THE REQUIREMENTS OF THIS MESSAGE ARE MET.

PAGE 04 RUCIFRDLOAD UNCLAS

A. INSPECTION PROCEDURE

A. USING A 5-10 POWER MAGNIFYING GLASS INSPECT THE EXPOSED SURFACES OF THE CLEVIS FOR EVIDENCE OF PART HAVING BEEN REPLATED.

IMMEDIATE

* U N C L A S S I F I E D *

PARTS HAVE BEEN REPLATED IF THERE ARE CLEAR INDICATIONS OF PLATING MATERIAL VISIBLE IN THE PITS.

B. PARTICULAR ATTENTION SHOULD BE GIVEN TO ANY PITTED SURFACE. IF PIT IS BROWN/RUST COLORED, PART HAS NOT BEEN REPLATED. IF PIT HAS A GOLDEN OR SILVER COLOR WITHIN THE PIT, PART HAS BEEN REPLATED.

C. INSPECT THREADED AREA OF SHANK ABOVE JAM NUT FOR EVIDENCE OF CRACKS. IF CRACKS ARE SUSPECTED, THE CLEVIS WILL BE REMOVED AND MAGNETIC PARTICLE INSPECTED USING THE FOLLOWING PROCEDURE -

(1) CLEAN PART THOROUGHLY, ESPECIALLY IN THREADED AREA USING WIRE BRUSH AND SOLVENT AS REQUIRED TO REMOVE ANY RESIDUE/DIRT.

(2) PLACE PART IN COIL AND MAGNETIZE BY APPLYING 1000 - 1500 AMPS AC. WHILE CURRENT IS FLOWING, DRENCH PART WITH FLUORESCENT MAGNETIC PARTICLE FLUID THAT MEETS SENSITIVITY REQUIREMENTS IAW TM 43-0103.

BT
#0197

IMMEDIATE

* U N C L A S S I F I E D *

ACCT DA-BHHCSVD

BT

UNCLAS

F1 L SECTION OF 02

(3) INSPECT USING ULTRAVIOLET LIGHT AND NOTE ANY CRACK INDICATIONS. IF NO INDICATIONS ARE PRESENT DEMAGNETIZE PART AND RETURN TO SERVICE.

D. IT IS NOT ANTICIPATED THAT ANY CRACKS WILL BE FOUND UNLESS EVIDENCE OF REPLATING IS PRESENT. IF ANY EVIDENCE OF REPLATING AS DESCRIBED ABOVE IS FOUND OR CRACKS ARE CONFIRMED CLEVIS SHALL IMMEDIATELY BE REMOVED FROM SERVICE.

PAGE 03 RUCIFRD60A2 UNCLAS

NOTE

EVIDENCE OF CORROSION/RUST, EITHER CURRENT OR PREVIOUS, IS NOT CAUSE FOR REMOVAL. ONLY REPLATED PARTS AS DESCRIBED ABOVE ARE CONSIDERED POTENTIALLY DEFECTIVE. PARTS FOUND WITH CORROSION/RUST SHOULD HAVE CORROSION REMOVED VIA STANDARD PROCEDURES AND CONTINUED IN SERVICE.

5. DISPOSITION INSTRUCTIONS - PARTS REJECTED BY THE INSPECTION SHALL BE SENT TO CCAD, SDSCC-OMT, ATTN - LEROY PATTON, AUTOVON 861-4511, CORPUS CHRISTI, TX, FOR REINSPECTION/ANALYSIS BY THE MOST EXPEDITIOUS TRANSPORTATION AVAILABLE.

6. DEFECTED AIRCRAFT ON A RED //X// STATUS SHOULD HAVE NORMAL MAINTENANCE CHECKS PERFORMED AS REQUIRED.

7. SUPPLY STATUS - REQUISITIONING OF REPLACEMENT CLEVIS WILL BE ACCOMPLISHED THROUGH NORMAL SUPPLY CHANNELS. A LIMITED NUMBER OF SPARE CLEVIS ARE CURRENTLY AVAILABLE AND ACTION IS BEING TAKEN TO ACCELERATE DELIVERIES FROM CURRENT CONTRACTORS.

8. AIRCRAFT IN TRANSIT ARE NOT AUTHORIZED A ONE TIME FLIGHT.

9. PARTS IN STOCK WILL BE INSPECTED PRIOR TO INSTALLATION.

PAGE 04 RUCIFRD60A2 UNCLAS

10. RECORDING AND REPORTING OF INSPECTION -

A. RECORD ACCOMPLISHMENT OF YOUR INSPECTION IN ACCORDANCE WITH THE PROCEDURE IN TM 38-750. THE FOLLOWING FORMS ARE APPLICABLE.

IMMEDIATE

RCV MSG # TIME RADA
72083 1424 195/84
3208HM 940TH 453FTS NAVY AERO COMM DPC DPM CUBAEL L...
DOJ AUDITOR 4CAF ADC JA DOTM Dvub Bar oo
ACE DET T/A FTW/CC ABS/CC MA XPR LGS SE WEA PA W/DO XPMT LCC FCS SG OT

CTOZYUW RULNEARD197 1951328-0000--RUWMDTA.

ZNR 00000

O 131300Z JUL 84

FM CDR ARNG APC MD//NGB-AVN-L//

TO AIG 740J

RUCGDKA/PA VI ST CROIX VI

ACCT DA BHCSVD

O 132040Z JUL 84

FM CDRVSCOM STL MO //DRSAV-M//

TO AIG 888J

RUCLRFA/US EVN PROT AGY PO BOX 15027 LAS VEGAS NV

RUEVDAE/US EVN PROT AGY REGION II 20 FEDERAL PLAZA NY NY

RUEOLMA/NATIONAL OCEANIC AND ATMOSPHERIC ADM ROCKVILLE MD

//ADAA/A02 COL L. A. WEAVER//

RUEVHFP/NASA KENNEDY SPACE CENTER CAPE CANAVERAL FL

//SI-SAT-23//

RUEHIN/AIT TAIPEI TAIWAN

RUEHC/AIT WASH DC

RUEHSH/CONUSMILGP SAN SALVADOR EL SALVADOR //SCES-AF//

RUESBC/CONUSMILGP BOGOTA COLOMBIA //SCCD-AFDCH//

RUCDGD/REDSTONE ARSENAL AL //DRSMI-ST//

RUEATRS/US CUSTOMS SERVICE DEPT OF TREASURY WASH DC

RUCJAAA/CDR US REDCOM MCDILL AFB FL //RCCS-AVN//

TO AIG 9004

J 7515

RUCLEBA/CDRUSAAVNC FT RUCKER AL //ATZQ-DI//

RUGMAD/CUSDAO TEL AVIV ISRAEL

23 ARMY

UH-1-84-06
M/R P/L inspection

PAGE 02 RUCIFRD UNCLAS

RUEHC/SEC STATE WASH DC //NEA/MFO//

RUEHRO/AEMB ROME ITALY //ODC//

RUEOPMA/DISC PHILADELPHIA PA //OEBB-JB//

RUCJAAA/CDR US REDCOM MCDILL AFB FL //RCCS-AVN//

RUEHBT/CJUSMAG BANGKOK THAILAND

RUFLAFA/CJUSMAG MADRID SPAIN //ARMY/NAVY SEC//

PAYAAC/HAENG MELBOURNE AUSTRALIA //SOAIR ENG//

PAYVPP/DEFAIR CANBERRA AUSTRALIA //OPHEL-AF//

ROEYDEE/USDA FOREST SERVICE PO BOX 2417 WASH DC 20013

//COOPERATIVE FIRE PROTECTION//

ACCT DA-BHCSVD

BT

UNCLAS

SECTION 01 OF 02

NOTE - THIS IS A SAFETY OF FLIGHT, EMERGENCY, IMMEDIATE GROUNDING MESSAGE, RELEASED IN ACCORDANCE WITH AR 95-18, DATED 1 MAY 1980 AND HAS NOT, REPEAT, HAS NOT BEEN TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSEES. ADDRESSEES SHOULD IMMEDIATELY RETRANSMIT THIS MESSAGE TO SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR CONCERNED. THE RETRANSMITTAL SHALL REFERENCE THIS MESSAGE. ACTION ADDRESSEES WILL IMMEDIATELY VERIFY THIS RETRANSMISSION TO COMMANDER, AVSCOM.

PAGE 03 RUCIFRD6060 UNCLAS

ATTN - DRSAV-NPSD.

SUBJECT - SAFETY OF FLIGHT EMERGENCY MESSAGE IMMEDIATE GROUNDING ALL SERIES UH-1 AIRCRAFT (EXCEPT C/M MODELS) (UH-1-84-06) TB 55-1520-242-8 CONCERNING CLEVIS OF PITCH CHANGE LINK.

1. SUMMARY - PRELIMINARY ANALYSIS OF A RECENT UH-1H HELICOPTER ACCIDENT INDICATED A FATIGUE FAILURE OF THE PITCH CHANGE LINK CLEVIS P/N 204-D11-134-1, FSN 5340-00-839-3934. THIS IS THE ONLY KNOWN FAILURE OF THIS PART DURING THE MANY YEARS AND MILLIONS OF OPERATIONAL FLYING HOURS OF THE UH-1 SERIES HELICOPTER. ANALYSIS REVEALED THAT THIS PART HAD BEEN REPLATED AND THE FAILURE MAY HAVE BEEN INITIATED BY HYDROGEN EMBRITTLEMENT.

2. PURPOSE OF MESSAGE - TO PERFORM AN IMMEDIATE ONE TIME VISUAL INSPECTION (ON THE HELICOPTER WITHOUT ANY DISASSEMBLY) TO DETERMINE IF INSTALLED CLEVIS'S SHOW ANY INDICATION OF HAVING BEEN REPLATED. IF ANY EVIDENCE OF REPLATING IS PRESENT, PART WILL BE IMMEDIATELY REMOVED FROM SERVICE.

3. PRIORITY CLASSIFICATION - IMMEDIATE GROUNDING UPON RECEIPT OF THIS MESSAGE THE CONDITION STATUS OF THE SUBJECT AIRCRAFT WILL BE CHANGED TO A RED //X//, UNTIL THE REQUIREMENTS OF THIS MESSAGE ARE MET.

PAGE 04 RUCIFRD6060 UNCLAS

4. INSPECTION PROCEDURE -

A. USING A 5-10 POWER MAGNIFYING GLASS INSPECT THE EXPOSED SURFACES OF THE CLEVIS FOR EVIDENCE OF PART HAVING BEEN REPLATED. PARTS HAVE BEEN REPLATED IF THERE ARE CLEAR INDICATIONS OF PLATING MATERIAL VISIBLE IN THE PITS.

B. PARTICULAR ATTENTION SHOULD BE GIVEN TO ANY PITTED SURFACE. IF PIT IS BROWN/RUST COLORED, PART HAS NOT BEEN REPLATED. IF PIT HAS A GOLDEN OR SILVER COLOR WITHIN THE PIT, PART HAS BEEN REPLATED.

C. INSPECT THREADED AREA OF SHANK ABOVE JAM NUT FOR EVIDENCE OF CRACKS. IF CRACKS ARE SUSPECTED, THE CLEVIS WILL BE REMOVED AND MAGNETIC PARTICLE INSPECTED USING THE FOLLOWING PROCEDURE -

(1) CLEAN PART THOROUGHLY, ESPECIALLY IN THREADED AREA USING WIRE BRUSH AND SOLVENT AS REQUIRED TO REMOVE ANY RESIDUE/DIRT.

(2) PLACE PART IN COIL AND MAGNETIZE BY APPLYING 1000 - 1500 AMPS AC. WHILE CURRENT IS FLOWING, DRENCH PART WITH FLUORESCENT MAGNETIC PARTICLE FLUID THAT MEETS SENSITIVITY REQUIREMENTS IAW TB

47-0103.

BT

*0197

UNCLASIFIED

RCY NSG # TIME RADA: 72082 1423 195/84
320RMD 940TH 453FTS NAVY AERO COMH DPC DPH COMSEC LCT ACF ACD OSI NCAX CAP D00C
DOJ AUDITOR 4CAF ADC JA D0TH D00S SSF SS
D ACE DET T/A FTW/CC ABC/CC MA XPR LGS SE MEA PA W/D0 XPMT LGC FCS SG 0T

0CTUZYUW RULHEA0198 1951329-UUUU--RUMMDTA.
ZNR UUUUU
O 131300Z JUL 84
FM CDR ARHG NGB APG MD//NGB-AYN-L//
TO AIG 7401
FULGSKA/TAG VI ST CROIX VI
ACCT DA-BHCSVD
O 132040Z JUL 84
FM CDRAVSCOM STL MO //DRSAV-M//
TO AIG 8881

23

ARMY
JEE
JEE
J

RUCLRFA/US EYN PROT ACY PO BOX 15027 LAS VEGAS NV
RUEVDAE/US EYN PROT ACY REGION II 20 FEDERAL PLAZA NY NY
RUEOLMA/NATIONAL OCEANIC AND ATMOSPHERIC ADM ROCKVILLE MD
//A9AA/A02 COL L. A. WEAVER//
RUEVHFP/NASA KENNEDY SPACE CENTER CAPE CANAVERAL FL
//SI-SAT-23//
RUENIN/AIT TAIPEI TAIWAN
RUENC/AIT WASH DC
RUENSH/COMUSMILGP SAN SALVADOR EL SALVADOR //SCES-AF//
RUESAG/COMUSMILGP BOGOTA COLOMBIA //SCCD-AFDCH//
PUCDCDA/REDSTONE ARSENAL AL //DRSNI-ST//
RUEATRS/US CUSTOMS SERVICE DEPT OF TREASURY WASH DC
//CJAAA/CDR US REDCOM MCDILL AFB FL //RCCS-AYN//
LAF0 AIG 9004
AIG 7515
RUCLEUA/CDRUSRAVNC FT RUCKER AL //ATZQ-DI//
RUMAD/CUSDAO TEL AVIV ISRAEL

PAGE 02 RUCIFRD UNCLAS
RUENC/SEC STATE WASH DC //NEA/MFO//
RUEHRO/AMEND ROME ITALY //ODC//
RUEOPNA/DISC PHILADELPHIA PA //OEBB-JU//
RUCJAAA/CDR US REDCOM MCDILL AFB FL //RCCS-AYN//
RUEHBT/CJUSHAG BANGKOK THAILAND
RUFLAFA/CJUSHAG MARG MADRID SPAIN //ARMY/NAVY SEC//
BAYAAC/HOENG MELBOURNE AUSTRALIA //SOAIR ENG//
PAYMPP/DEPAIR CANBERRA AUSTRALIA //OPHEL-AF//
RUEVDEE/USDA FOREST SERVICE PO BOX 2417 WASH DC 20013
//COOPERATIVE FIRE PROTECTION//
ACCT DA-BHCSVD

BT
UNCLAS

FINAL SECTION OF 02
(3) INSPECT USING ULTRAVIOLET LIGHT AND NOTE ANY CRACK
INDICATIONS. IF NO INDICATIONS ARE PRESENT DEMAGNETIZE PART AND
RETURN TO SERVICE.
D. IT IS NOT ANTICIPATED THAT ANY CRACKS WILL BE FOUND UNLESS
EVIDENCE OF REPLATING IS PRESENT. IF ANY EVIDENCE OF REPLATING AS
DESCRIBED ABOVE IS FOUND OR CRACKS ARE CONFIRMED CLEVIS SHALL
IMMEDIATELY BE REMOVED FROM SERVICE.

NOTE

EVIDENCE OF CORROSION/RUST, EITHER CURRENT OR PREVIOUS, IS NOT CAUSE FOR REMOVAL. ONLY REPLATED PARTS AS DESCRIBED ABOVE ARE CONSIDERED POTENTIALLY DEFECTIVE. PARTS FOUND WITH CORROSION/RUST SHOULD HAVE CORROSION REMOVED VIA STANDARD PROCEDURES AND CONTINUED IN SERVICE.

5. DISPOSITION INSTRUCTIONS - PARTS REJECTED BY THE INSPECTION SHALL BE SENT TO CCAD, SDSCC-0MT, ATTN - LEROY PATTON, AUTOVON 861-4511, CORPUS CHRISTI, TX., FOR REINSPECTION/ANALYSIS BY THE MOST EXPEDITIOUS TRANSPORTATION AVAILABLE.
6. AFFECTED AIRCRAFT ON A RED //X// STATUS SHOULD HAVE NORMAL MAINTENANCE CHECKS PERFORMED AS REQUIRED.
7. SUPPLY STATUS - REQUISITIONING OF REPLACEMENT CLEVIS WILL BE ACCOMPLISHED THROUGH NORMAL SUPPLY CHANNELS. A LIMITED NUMBER OF SPARE CLEVIS ARE CURRENTLY AVAILABLE AND ACTION IS BEING TAKEN TO ACCELERATE DELIVERIES FROM CURRENT CONTRACTORS.
8. AIRCRAFT IN TRANSIT ARE NOT AUTHORIZED A ONE TIME FLIGHT.
9. PARTS IN STOCK WILL BE INSPECTED PRIOR TO INSTALLATION.

10. RECORDING AND REPORTING OF INSPECTION -

A. RECORD ACCOMPLISHMENT OF YOUR INSPECTION IN ACCORDANCE WITH THE PROCEDURE IN TM 38-750. THE FOLLOWING FORMS ARE APPLICABLE.

- (1) DA FORM 2408-13, AIRCRAFT INSPECTION AND MAINTENANCE

RECORD.

- (2) DA FORM 2408-15, AIRCRAFT HISTORICAL RECORD.

B. SAFETY OF FLIGHT FOLLOW UP REPORT ACS CSGLD 1860. MACOM'S AND OTHER ACTION ADDRESSEES, UPON COMPLETION OF THE REQUIREMENTS SET FORTH IN THIS MESSAGE, OR NOT LATER THAN 31 JUL 84 WILL FORWARD A MESSAGE REPORT OF ACTION ACCOMPLISHED TO COMMANDER, AVSCOM, ATTN - DRSAV-MPSD, PER AR 95-18. UNITS WILL BE REPORTED AS DELINQUENT SEVEN DAYS AFTER TRANSMISSION OF THIS MESSAGE. THE REPORT WILL CITE THE SAFETY OF FLIGHT MESSAGE, TO 95-1520-242-20-8, THE AIRCRAFT MISSION DESIGN SERIES, AND SERIAL NUMBER OF THE AIRCRAFT. IF ALL REQUIRED ACTION ARE NOT COMPLETED, THE REPORT WILL ALSO CONTAIN THE DATE BY WHICH IT IS ESTIMATED THEY WILL BE COMPLETED. WHEN THE ESTIMATED DATE OF COMPLETION ARRIVES, THE SERIAL NUMBERS REPORTED PREVIOUSLY AS NOT COMPLIED WITH WILL BE REPORTED BY MESSAGE, WITH PRESENT STATUS AND REVISED ESTIMATED COMPLETION DATE. REVISED ESTIMATED COMPLETION DATES AND STATUS REPORTS WILL CONTINUE TO BE SUBMITTED UNTIL ALL

REQUIRED ACTIONS HAVE BEEN COMPLETED AND REPORTED. FOR AIRCRAFT IN DEPOT MAINTENANCE, AWAITING DISPOSITION OR IN STORAGE, TAKE THE FOLLOWING ACTIONS -

- (1) IMMEDIATELY UPDATE THE AIRCRAFT LOGBOOK BY ENTERING REQUIREMENTS FOR ACCOMPLISHMENT OF THIS MESSAGE ON THE DA FORM 2408-13.
- (2) REPORT BY RETURN MESSAGE BY AIRCRAFT MDS AND SERIAL NUMBER THAT THE AIRCRAFT LOGBOOK HAS BEEN UPDATED TO INCLUDE THIS MESSAGE REQUIREMENT.
- (3) PROVIDE A POINT OF CONTACT WITH TELEPHONE NUMBER ON ALL REPORTS.