

**URGENT**

**TB 1-1520-240-20-166**

**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN**

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**TEMPORARY FLIGHT RESTRICTIONS DUE TO AFT ROTOR  
BLADE FIBER DISTORTION, ON ALL CH-47D, CH-47F,  
MH-47D AND MH-47E AIRCRAFT**

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Headquarters, Department of the Army, Washington D.C.

22 March 2006

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**DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.**

**NOTE**

This message is effective until rescinded or superseded.

**NOTE**

This message is issued IAW AR 95-1 and has not been transmitted to units subordinate to addressees. Addressees will immediately retransmit this message to all subordinate units, activities or elements affected or concerned. MACOMs will immediately verify this transmission to the AMCOM SOF Compliance Officer (AMSAM-SF-A, safeadm@redstone.army.mil).

**NOTE**

MACOM Commanders may authorize temporary exception from message requirements IAW AR 95-1, Ch 6. Exception may only occur when combat operations or matter of life or death in civil disasters or other emergencies are so urgent that they override the consequences of continued aircraft operation.

**NOTE**

Commanders unable to comply with the requirements of this message within the time frame specified will change the affected aircraft status symbol to a Red //X//.

**1. SUMMARY.**

**a.** Background. During Boeing investigations of a Royal Air Force cracked H-47 rotor blade, and a US Army H-47 Rotor Blade Quality Deficiency Report (QDR), Boeing found the rotor blade manufacturing process generated distortion in some of the composite material fiber wraps around the rotor blade root end bore. Instead of the root end bore fibers curing in the resin with one smooth and continuous direction, cured fibers sustained wrinkled shaped distortions. Rotor blade fiber distortion wrinkles preclude the rotor blade from being able to achieve blade fatigue life.

**b.** Message Purpose. Impose temporary restrictions on certain flight maneuvers which induce high loads on the aft rotor blade root end.

**2. END ITEMS AFFECTED – ALL H-47 SERIES AIRCRAFT.**

**3. ASSEMBLIES/COMPONENTS/PARTS AFFECTED.**

- a. Suspect/discrepant assemblies/components/parts:

NOMENCLATURE	PN	NSN
AFT ROTARY WING BLADE	114R1702-38	1615-01-145-7110

**4. INITIAL TAMMS (THE ARMY MAINTENANCE SYSTEM) COMPLIANCE REQUIREMENTS.**

- a. Upon receipt of this message, make the following entry on the DA Form 2408-13-1. Enter a Red Dash //-- status symbol with the following statement: "Comply with requirements of CH-47-06-SOF-03 prior to next flight".

**NOTE**

The TAMMS Compliance Reporting Form is available at "www.redstone.army.mil/sof/tamms.xls" (use lower case letters only) or may be obtained from the units servicing LAR. Alternate forms may be approved by the AMCOM SOF Compliance Officer.

**NOTE**

The TAMMS Compliance Report only confirms the unit has made the initial logbook entry for assigned aircraft. TAMMS Compliance Reports will include aircraft serial numbers (in numerical order), date of entry on DA Form 2408-13-1, unit address, local POC name and phone number.

- b. TAMMS Compliance Report. Submit TAMMS Compliance Report via priority email to "safeadm@redstone.army.mil" NLT 15 Mar 06 IAW AR 95-1. If email is not available, the report may be faxed to: SOF Compliance Officer at DSN 897-2111 or (256) 313-2111.

**5. TASK/INSPECTION COMPLIANCE REPORTING REQUIREMENTS.**

**NOTE**

The Task/Inspection Reporting Form is available at "www.redstone.army.mil/sof/log.xls" (use lower case letters only) or may be obtained from the units servicing LAR. This report will cite the message number, date of inspection, aircraft serial number, aircraft hours, component serial numbers, component hours.

- a. Aircraft. Submit Task/Inspection Compliance Report for this message to Log POC NLT 13 Mar 06.
- b. Retail Stock (Installation level and below). Submit Task/Inspection Compliance Report for this message to Log POC NLT 13 Mar 06.
- c. Wholesale Stock (Including Depot Stock, Depot Maintenance and Single Stock Fund). Report compliance with this message IAW para 8 to Log POC NLT 13 Mar 06.

**6. SPECIAL PROVISIONS TO MESSAGE REQUIREMENTS (AIRCRAFT). N/A.**

**7. TECHNICAL PROCEDURES/INSTRUCTIONS.**

- a. Make the following entry on the DA Form 2408-13-1. Enter a Circle Red //X// status symbol with the following statement: "Operate aircraft IAW CH-47-06-SOF-03. For aircraft greater than 45,000 lbs and airspeed 100 KTAS or greater, rates of descent in excess of 1200 feet per minute (FPM) are prohibited."

- b. If the above stated restriction is exceeded, land as soon as practicable and perform "Daily" aft rotor blade root end inspection for visible cracks.

c. Conduct records review of the Aft Rotary Wing Blades to determine information required for the Task/Inspection Compliance Report. Submit Task/Inspection Compliance Report IAW para 5.

d. Clear the initial entry from para 4.a. and note compliance on DA Form 2408-15.

**8. PROCEDURES/INSTRUCTIONS FOR ASSEMBLIES/COMPONENTS/PARTS IN WORK OR IN STOCK (AT ALL LEVELS INCLUDING WAR RESERVES).** Annotate the serviceability tag with: "CH-47-06-SOF-03, Aft Rotor Blade Fiber Distortion, not complied with". Do not remove original condition tags.

a. Items in Retail Stock. Commanders and Facility Managers that maintain retail stock at installation level and below will complete the following procedures.

(1) Comply with inspection procedures as required.

(2) Submit a Task/Inspection Report to Log POC IAW para 5.

b. Items in Single Stock Fund and in Work (Overhaul/Repair Facility). Submit Task/Inspection Compliance Report to Log POC IAW para 5.

c. Items in Wholesale Stock. Depot storage facilities will complete the following procedures.

(1) Submit DD Form 1225 (Storage Quality Control Report) to the Wholesale POC. Include an estimate of the cost reimbursable funding required to move serviceable items on hand affected by message to a work area, unpack the materiel, repack the materiel after inspection, and to return the materiel to storage, as appropriate.

(2) Comply with additional instructions provided by the Wholesale POC to return items to their original condition code.

**9. SPECIAL TOOLS AND FIXTURES REQUIRED.** N/A.

**10. SUPPLY/PARTS (REQUISITION/DISPOSITION).** N/A.

**11. MAINTENANCE APPLICATION.**

a. Category of Maintenance. AVUM.

b. Estimated time required to complete records check: Total of 0.5 man-hours using 1 person.

**12. PUBLICATION REQUIREMENTS.**

a. References.

(1) AR 95-1.

(2) DA Pam 738-751.

(3) TM 1-1520-240-10.

(4) TM 1-1520-252-10.

(5) TM 1-1520-272-10.

b. Publication Changes. N/A.

### 13. POINTS OF CONTACT.

a. Technical POCs are:

(1) Primary. Larry T. Wieschhaus, AMSRD-AMR-AE-C, DSN 645-0200 or (256) 955-0200. Fax is DSN 897-4726 or (256) 313-4726. Email is "larry.wieschhaus@us.army.mil".

(2) Alternate. Jim Hamilton, AMSRD-AMR-AE-C, DSN 897-3380 or (256) 313-3380. Fax is DSN 897-4726 or (256) 313-4726. Email is "james.hamilton12@us.army.mil".

b. Logistical POCs are:

(1) Primary. Dwain E. Pannell, SFAE-AV-CH-L, DSN 897-0733 or (256) 313-0733. Fax is DSN 897-4726 or (256) 313-4726. Email is "dwain.pannell@us.army.mil".

(2) Alternate. Bill Olson, SFAE-AV-CH-L, DSN 897-0721 or (256) 313-0721. Fax is DSN 897-4726 or (256) 313-4726. Email is "william.olson@peoavn.army.mil".

c. Wholesale Materiel POC (Spares) is Mr. Jeffery Cooper, AMSAM-MMC-AV-CA, DSN 897-3367 or (256) 313-3367. Fax is DSN 897-4726 or (256) 313-4726. Email is "jeffery.cooper2@us.army.mil".

d. Forms and Records POCs are:

(1) Primary. Ms. Ann Waldeck, AMSAM-MMC-MA-NM, DSN 746-5564 or (256) 876-5564. Fax is DSN 746-4904 or (256) 876-4904. Email is "ann.waldeck@redstone.army.mil".

(2) Alternate. Ms. Sibyl Johnson, AMSAM-MMC-MA-NM, DSN 788-6696 or (256) 842-6696. Fax is DSN 746-4904 or (256) 876-4904. Email is "sibyl.johnson@redstone.army.mil".

e. Safety POCs are:

(1) Primary. Mr. Randall Rushing (SAIC), AMSAM-SF-A, DSN 897-2092 or (256) 313-2092. Fax is DSN 897-2111 or (256) 313-2111. Email is "randall.rushing@us.army.mil".

(2) Alternate. Mr. Russell Peusch, AMSAM-SF-A, DSN 788-8632 or (256) 842-8632. Fax is DSN 897-2111 or (256) 313-2111. Email is "russell.peusch@redstone.army.mil".

f. Foreign Military Sales POC is Mr. Ronnie W. Sammons, AMSAM SA-AS-UT, DSN 897-0875 or (256) 313-0875. Fax is DSN 897-0411 or (256) 313-0411. Email is "ronnie.sammons@redstone.army.mil".

g. After hours, contact the AMCOM Operations Center (AOC) DSN 897-2066/7 or (256) 313-2066/7.

#### NOTE

A listing of published safety messages can be viewed at "<https://ams14.redstone.army.mil/safety/sof/index.html>". This is a secured website which requires an Army Knowledge Online (AKO) ("www.us.army.mil") ID and password.

### 14. REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS.

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. You may also submit your recommended changes by E-Mail directly to [2028@redstone.army.mil](mailto:2028@redstone.army.mil) or by fax (256) 842-6546/DSN 788-6546. A reply will be furnished directly to you. Instruction for sending an electronic 2028 may be found at the back of this publication.

By Order of the Secretary of the Army:

Official:



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The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however, only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" [whomever@avma27.army.mil](mailto:whomever@avma27.army.mil)  
To: [2028@redstone.army.mil](mailto:2028@redstone.army.mil)  
Subject DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840-229-23
9. **Pub Title:** TM
10. **Publication Date:** 04-JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.

