

**URGENT**

**\* TB 1-1520-240-20-162**

**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN**

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**MANDATORY MAINTENANCE FOR ALL  
HYDRAULIC FLUID SYSTEM MAINTENANCE ON ALL  
CH-47D, CH-47F, MH-47D AND MH-47E AIRCRAFT**

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Headquarters, Department of the Army, Washington, D.C.  
30 September 2005

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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This message is effective until rescinded or superseded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 - CH-47-99-ASAM-02 required hydraulic purification every 200 flight hours and CH-47-00-ASAM-03 required aircraft hydraulic system sampling every 50 flight hours. Experience has shown this additional maintenance has achieved the expected system cleanliness. It has been determined the interval for hydraulic purification can safely be extended and the requirement for periodic hydraulic sampling rescinded. These changes will reduce the maintenance burden while maintaining the desired level of system cleanliness.

**b.** Message Purpose:

- (1)** Rescind the requirements for all H-47 hydraulic fluid sampling.
- (2)** Change the CH-47D hydraulic fluid purification interval to 400 hours.

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\* This TB supersedes, MSG DTG 142020Z September 2005.

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(3) Align hydraulic filter change intervals with system purification.

2. **END ITEMS AFFECTED.** All H-47 Series Aircraft.

3. **ASSEMBLIES/COMPONENTS/PARTS AFFECTED.** H-47 Hydraulic Fluid System.

**NOTE**

When complying with the requirements of this message, complete forms and records entries IAW DA PAM 738-751. ULLS-A units will use appropriate "E" forms.

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

a. Upon receipt of this message, make the following entry on the DA Form 2408-13-1. Enter a Red Horizontal Dash // status symbol with the following statement: "Comply with requirements of CH-47-05-ASAM-06 NLT 28 Sep 05."

**NOTE**

The TAMMS compliance reporting form is available at "[www.redstone.army.mil/sof/tamms.xls](http://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 21 Sep 05 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.** N/A.

**6. SPECIAL PROVISIONS TO MESSAGE REQUIREMENTS (AIRCRAFT).**

a. Aircraft in AVIM or Depot level maintenance - Commanders, facility managers and contractors will not issue aircraft until they are in compliance with this message.

b. Aircraft at Contractor Facility - DD 250 aircraft will be in compliance with this message prior to departure.

c. Aircraft in Transit - (Surface/Air Shipment and aircraft in Ferry Status/Away From Home Station) comply with message requirements within 14 days of arrival.

**7. TECHNICAL PROCEDURES/INSTRUCTIONS.**

**NOTE**

GEN-01-ASAM-04, Aviation Ground Support Equipment (AGSE) Hydraulic Fluid Contamination Control (issued 4 Jun 01), and GEN-02-ASAM-01, Hydraulic Fluid Contamination Control (issued 28 Dec 01) have NOT been rescinded or superseded by this ASAM and will remain in effect.

a. Upon receipt of this message, hydraulic fluid sampling, purification and filter change procedures are modified as follows.

(1) Discontinue all fluid sampling of the H-47 hydraulic system. The sampling is currently required IAW CH-47-00-ASAM-03 (TB 1-1520-240-20-121), TM 55-1520-240-23-1, Task 1-92, Operating Time Special Inspection 10.2, and TM 1-1520-252-23-1, Task 1-100, Operating Time Special Inspection 2.2.

(2) Change the CH-47D hydraulic fluid purification interval to 400 hours.

(3) Hydraulic system filters will be replaced at system purification.

b. Update appropriate TMs IAW para 12.2. of this message.

c. ULLS-A units may use this message as authority to delete Inspection Number A137 from the Inspection LCF (DA Form 2408-18).

d. Manual record keepers may use this message as authority to delete the 50 hour Utility and Primary Hydraulic Fluid Sample from the DA Form 2408-18.

e. Clear the initial entry from para 4.1. and note compliance on DA Form 2408-15, Historical Record For Aircraft.

**8. PROCEDURES/INSTRUCTIONS FOR ASSEMBLIES/COMPONENTS/PARTS IN WORK OR IN STOCK (AT ALL LEVELS INCLUDING WAR RESERVES). N/A.**

**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 - Total of 0.5 man-hours using 1 person with no "Not Mission Capable Maintenance" (NMCM) time per end item.

**12. PUBLICATION REQUIREMENTS.**

a. References:

(1) AR 95-1.

(2) DA Pam 738-751.

(3) TM 1-1520-252-PM.

(4) TM 1-1520-252-23.

(5) TM 1-1520-272-23.

(6) TM 1-1520-272-PM.

(7) TM 55-1520-240-23.

(8) TM 55-1520-240-PM, Technical Manual Phase Maintenance Check List for Army CH-47D Helicopter, 25 May 2003.

(9) TB 43-0211, Army Oil Analysis Program, 1 December 2004.

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**b.** Publication changes - The following TMs shall be changed to reflect this message. A copy of this message will be used as authority to implement the change until the official change is received.

**(1)** TM 55-1520-240-23, TM 1-1520-252-23, TM 1-1520-272-23 and TB 43-0211 shall be changed to discontinue all fluid sampling of the H-47 hydraulic system.

**(2)** TM 55-1520-240-PM Inspection Requirement 8.25 shall be changed to read "Replace Utility System Pressure and Return Filter Elements" every "2,4,C" Phase.

**(3)** TM 1-1520-252-PM shall be changed to add requirement "Replace Utility System Pressure and Return Filter Elements" every 300 hr Phase.

**(4)** TM 1-1520-272-PM shall be changed to add requirement "Replace Utility System Pressure and Return Filter Elements" every 300 hr Phase.

**(5)** TM 55-1520-240-PM, Inspection Requirement P.62 shall be changed to Perform Hydraulic System purification every "2,4,C" Phase.

**(6)** TM 55-1520-240-PM, Inspection Requirement 10.16 shall be changed to read "Remove uncirculated fluid from extensible link of each ILCA by purging three ounces of hydraulic fluid from number one and number two sides of the roll, pitch and yaw ILCA link bleed ports" every "2,4,C" Phase. Note: The check "for leaks, cracks, and security of components, Linkage for security, and ILCA area for evidence of interference and for foreign objects." will remain a requirement at every phase inspection

### **13. POINTS OF CONTACT.**

**a.** Technical POCs are:

**(1)** Primary - Mr. Keith Clancy, AMSRD-AMR-AE-C, DSN 897- 3382 or (256) 313-3375. Fax is 897-4726 or (256) 313-4726. Email is "Keith.Clancy@us.army.mil".

**(2)** Alternate - Mr. Tim Rickmeyer, AMSRD-AMR-AE-C, DSN 645- 6485 or (256) 955-6485. Fax is 897-4726 or (256) 313-4726. Email is "Timothy.Rickmeyer@us.army.mil".

**b.** Logistical POCs are:

**(1)** Primary - Mr. Bill Olson, SFAE-AV-CH, DSN 897-0721 or (256) 313-0721. Fax is 897-4726 or (256) 313-4726. Email is "William.Olson@peoavn.redstone.army.mil".

**(2)** Alternate - Mr. Mark Samuelson, SFAE-AV-CH, DSN 897-0726 or (256) 313-0726. Fax is 897-4726 or (256) 313-4726. Email is "Mark.Samuelson1@us.army.mil".

**c.** 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".

**d.** Safety POCs are:

**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.

**(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@redstone.army.mil](mailto:Randall.Rushing@redstone.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](mailto:Russell.Peusch@redstone.army.mil)".

**e.** 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](mailto:Ronnie.Sammons@redstone.army.mil)".


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

**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:

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From: "Whomever" <whomever@avma27.army.mil>

To: <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:**

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