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*UH-1-01-ASAM-02
fuel xmitters lower
R/H fuel cell.*

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FROM :CDRAMCOM REDSTONE ARSENAL AL//AMSAM-SF-A// TO :AIG 8881 :AIG 9004 :AIG 7515 :AIG 7471 :AIG 12124 :CDRAMCOM REDSTONE ARSENAL AL//AMSAM-RA-FO// :CDRBGAD RICHMOND KY//SIOBG-GC// :RAYTHEON RANGE SYSTEMS ENGINEERING KWAJALEIN MH//PAT2// :USDOCO LANDSOUTHEAST IZMIR TU//AV// :WALLOPS FLIGHT FACILITY NASA WALLOPS ISLAND VA// : CODE 831.2 AIRCRAFT QA// INFO :CDRMDW WASHINGTON DC//ANLG-LS// :FBI WASHINGTON DC//CIRG-SOU AVIATION// :FAA SOUTHWEST RGN HQ FORT WORTH TX//ASW-100// :CGUSASMD C ARLINGTON VA//CSSD/ZA// XMT : ACCT : TEXT

Subject

AVIATION SAFETY ACTION MESSAGE, MAINTENANCE MANDATORY,

RCS CSGLD-1860(R1), ALL UH-1H/V AIRCRAFT, **ONE TIME INSPECTION OF FUEL QUANTITY TRANSMITTERS, UH-1-01-ASAM-02** (TS 1-1520-210-20-52).

NOTE

THIS IS AN AVIATION SAFETY ACTION 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 ADDRESSEES WILL IMMEDIATELY VERIFY THIS TRANSMISSION TO CDR, ANCOM, ATTN: AMSAM-SF-A (SOF COMPLIANCE OFFICER).

Priority Classification**NOTE**

IAW AR 95-1, PARA 6-6A, MACOM COMMANDERS MAY AUTHORIZE TEMPORARY EXCEPTION FROM ASAM MESSAGE REQUIREMENTS. 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.

A. AIRCRAFT IN USE - 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: "INSPECT FUEL QUANTITY TRANSMITTERS IAW UH-1-01-ASAM-02 (TS 1-1520-210-20-52) WITHIN THE NEXT 50 FLIGHT HOURS, BUT NLT 17 MAR 01." CLEAR THE RED HORIZONTAL DASH // - // ENTRY WHEN THE PROCEDURES IAW PARA 8 AND 9 ARE COMPLETED. THE AFFECTED AIRCRAFT SHALL BE INSPECTED AS SOON AS PRACTICAL BUT NO LATER THAN 17 MAR 01. COMMANDERS WHO ARE UNABLE TO COMPLY WITH THE REQUIREMENTS OF THIS MESSAGE WITHIN THE TIME FRAME SPECIFIED WILL UPGRADE THE AFFECTED AIRCRAFT STATUS SYMBOL TO A RED //X//.

B. AIRCRAFT IN DEPOT MAINTENANCE - DEPOT COMMANDERS WILL NOT ISSUE AIRCRAFT UNTIL THEY ARE IN COMPLIANCE WITH THIS MESSAGE.

C. AIRCRAFT UNDERGOING MAINTENANCE - COMMANDERS AND FACILITY MANAGERS WILL NOT ISSUE AIRCRAFT UNTIL THEY ARE IN COMPLIANCE WITH THIS MESSAGE.

D. AIRCRAFT IN TRANSIT -

(1) SURFACE/AIR SHIPMENT - SAME AS PARA 1A.

(2) FERRY STATUS - SAME AS PARA 1A.

E. MAINTENANCE TRAINERS (CATEGORY A AND B) - N/A.

F. COMPONENT/PARTS IN STOCK AT ALL LEVELS (DEPOT AND OTHERS) INCLUDING WAR RESERVES - UPON RECEIPT OF THIS MESSAGE, DEPOT AND MATERIEL ACTIVITY COMMANDERS WILL ENSURE THE MATERIEL CONDITION TAGS OF ALL ITEMS IN ALL CONDITION CODES LISTED IN PARAGRAPH 6 ARE ANNOTATED TO READ: "UH-1-01-ASAM-02 (TS 1-1520-210-20-52) ONE TIME INSPECTION OF FUEL QUANTITY TRANSMITTERS, NOT COMPLIED WITH".

(1) WHOLESALE STOCK - UPON RECEIPT OF THIS MESSAGE, DEPOT AND MATERIEL ACTIVITY COMMANDERS WILL ENSURE ALL SERVICEABLE ITEMS (CONDITION CODES //A//, //B//, //C//, //D//, AND //E//) LISTED IN PARAGRAPH 6 ARE PLACED IN CONDITION CODE //J// AND TAGGED WITH A SUSPENDED TAG/LABEL - MATERIEL, DO FORM 1575/DO FORM 1575-1. DO NOT REMOVE ORIGINAL CONDITION TAGS.

(2) RETAIL STOCK - UPON RECEIPT OF THIS MESSAGE, COMMANDERS AND FACILITY MANAGERS MAINTAINING RETAIL STOCK AT INSTALLATION LEVEL AND BELOW SHALL CONTACT THE SUPPORTED AVIATION UNIT TO PERFORM THE PROCEDURES REQUIRED IAW PARAGRAPHS 8 AND 9 ON SUSPECT MATERIEL. DISPOSE OF DISCREPANT MATERIEL IAW PARA 10.

G. COMPONENTS/PARTS IN WORK (DEPOT LEVEL AND OTHERS) - DEPOT AND OTHER MAINTENANCE ACTIVITY COMMANDERS WILL ENSURE ITEMS LISTED IN PARAGRAPHS 6 AND 7 ARE NOT ISSUED UNTIL THEY ARE IN COMPLIANCE WITH THIS MESSAGE.

Task/Inspection Suspense Date

- COMPLETE THE INSPECTION IAW

PARAGRAPH 8 WITHIN THE NEXT 50 FLIGHT HOURS BUT NLT 17 MAR 01 AND REPORT IAW PARA 14B.

Reporting Compliance Suspense Date

- REPORT COMPLIANCE IAW

PARA 14A NLT 7 FEB 01.

Summary of Problem

NOTE

THE NOMENCLATURE "FUEL QUANTITY TRANSMITTER" AND "LIQUID TRANSMITTER" ARE USED INTERCHANGEABLY IN THIS ASAM.

A. SEVERAL FIELD REPORTS HAVE BEEN RECEIVED INDICATING A PROBLEM WITH DETERIORATED CLAMP CUSHIONS ON THE FUEL QUANTITY

TRANSMITTERS LOCATED IN THE LOWER RIGHT FUEL CELL. INVESTIGATION INTO THIS PROBLEM HAS REVEALED THE MANUFACTURER OF THE TRANSMITTERS IN QUESTION, SIMMONDS PRECISION PRODUCTS, INCORPORATED, RECEIVED A NUMBER OF INFERIOR CLAMP CUSHIONS FROM A SUB-VENDOR IN THE EARLY 1980'S. THESE CLAMP CUSHIONS WERE MADE OF A CHEMICAL COMPOSITION WHICH WAS INCOMPATIBLE WITH AIRCRAFT FUEL. THIS RESULTS IN THE SUPPORTING CLAMP DETERIORATING TO A POINT WHERE IT GROUNDS THE TRANSMITTER TO THE FUEL CELL WHICH GIVES AN INDICATION OF ZERO FUEL ON THE FUEL QUANTITY INDICATOR. IN ADDITION, IT HAS BEEN REPORTED THAT THE ELECTRICAL LEADS TO THESE FUEL QUANTITY TRANSMITTERS HAVE BEEN FOUND WITH EVIDENCE OF ELECTRICAL ARCING. THIS IS SIMILAR TO THE SITUATION REPORTED IN ASAM UH-1-99-ASAM-03 INVOLVING THE AFT CENTER FUEL QUANTITY TRANSMITTER IN WHICH THAT WIRES WERE CHAFING AGAINST THE MOUNTING BRACKET. IN THIS CASE, HOWEVER, IT APPEARS THAT ARCING IS OCCURRING DUE TO A BREAKDOWN OF THE WIRE INSULATION AND THE CURRENT SEEKING GROUND.

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

C. THE PURPOSE OF THIS MESSAGE IS TO -

(1) REQUIRE A ONE TIME INSPECTION OF THE CLAMP CUSHIONS FOR DETERIORATION AND FUEL QUANTITY TRANSMITTERS WIRE LEADS FOR ARCING.

(2) REQUIRE THE INSTALLATION OF SPIRAL WRAP ON THE FUEL QUANTITY TRANSMITTER LEADS TO PREVENT ARCING.

End Items To Be Inspected

- ALL UH-1B/V SERIES AIRCRAFT.

Assembly Components to be Inspected

NOMENCLATURE	PART NO.	NSN
LIQUID TRANSMITTER	205-061-633-17	6680-00-133-7911
LIQUID TRANSMITTER	205-061-633-19	6680-00-133-7912

Parts to be Inspected

NOMENCLATURE	PART NO.	NSN
CLAMP CUSHION	ALL	ALL

Inspection Procedures

A. CHECK AIRCRAFT MAINTENANCE RECORDS FOR ANY ANNOTATION OF REPLACEMENT OF ONE OF THE LIQUID TRANSMITTERS IDENTIFIED IN PARAGRAPH 6 AND NOTE THE DATE OF REPLACEMENT.

B. GAIN ACCESS TO LIQUID TRANSMITTERS (FORE AND AFT), LISTED IN PARAGRAPH 6, LOCATED IN THE LOWER RIGHT HAND FUEL CELL, IAW PROCEDURES OUTLINED IN TM 55-1520-210-23-2.

NOTE

THE ONLY SUSPECT CLAMP CUSHIONS ARE BLACK IN COLOR. NEITHER RED NOR WHITE CLAMP CUSHIONS HAVE BEEN FOUND DETERIORATED. THE RED AND BLACK CLAMP CUSHIONS ARE A RUBBER COMPOUND. THE WHITE CLAMP CUSHION IS MADE OF POLYURETHANE THERMOPLASTIC.

NOTE

THERE ARE TWO CLAMP CUSHIONS ON EACH LIQUID TRANSMITTER. IN GENERAL, BOTH CLAMP CUSHIONS SHOULD BE THE SAME COLOR, HOWEVER, A COMBINATION

OF BLACK AND WHITE HAVE BEEN FOUND TO EXIST.

C. IDENTIFY THE COLOR OF THE CLAMP CUSHIONS INSTALLED ON THE LIQUID TRANSMITTERS.

(1) IF THE COLOR OF BOTH CLAMP CUSHIONS IS EITHER RED OR WHITE, THIS PORTION OF THE INSPECTION IS COMPLETE.

(2) IF THE COLOR OF EITHER CLAMP CUSHION IS BLACK, DETERMINE THE CONDITION OF THE CUSHION. ANY SIGN OF SOFTENING AND/OR DEFORMATION WILL BE CONSIDERED DETERIORATION.

(A) IF THE BLACK CLAMP CUSHION SHOWS NO SIGNS OF DETERIORATION -

(1) IF THE LIQUID TRANSMITTER HAS NOT BEEN REPLACED WITHIN THE PAST 50 DAYS IT MAY REMAIN IN SERVICE.

(2) IF THE LIQUID TRANSMITTER HAS BEEN REPLACED WITHIN THE PAST 50 DAYS, CONTACT THE LOGISTICAL POC IAW PARA 16B.

(B) IF THE BLACK CLAMP CUSHION DOES SHOW SIGNS OF DETERIORATION, ACCOMPLISH THE CORRECTION PROCEDURES IAW PARA 9.

D. INSPECT WIRE LEADS TO LIQUID TRANSMITTER FOR SIGNS OF ARCING (BURNED INSULATION), CHAFING, OR INSULATION DETERIORATION.

(1) IF NO ARCING, CHAFING, OR INSULATION DETERIORATION IS INDICATED, THIS PORTION OF THE INSPECTION IS COMPLETE. INSTALL SPIRAL WRAP TUBING IAW PARAGRAPH 9C.

(2) IF ARCING, CHAFING, OR INSULATION DETERIORATION IS INDICATED, ACCOMPLISH THE CORRECTION PROCEDURES IAW PARA 9.

Correction Procedures

A. CLAMP CUSHIONS CONSIDERED UNSERVICEABLE SHALL BE REPLACED WITH A SERVICEABLE LIQUID TRANSMITTER AND COMPLETE THE FOLLOWING -

NOTE

PRIOR TO INSTALLATION OF A NEW OR USED LIQUID TRANSMITTER WITH BLACK CLAMP CUSHIONS FROM UNIT SUPPLY, CONTACT THE LOGISTICAL POC IAW PARAGRAPH 16B FOR FURTHER INSTRUCTIONS.

NOTE

SEVERE DETERIORATION OF BLACK CLAMP CUSHIONS MAY RESULT IN DEPOSITS ON THE BOTTOM OF THE FUEL CELL.

(1) INSPECT INLET SCREEN ON FUEL BOOST PUMP FOR EVIDENCE OF BLACK RUBBER MATERIAL. CLEAN AS NEEDED.

(2) REMOVE AND INSPECT FUEL FILTER ELEMENT IAW TM 55-1520-210-23-2. REPLACE IF BLACK RUBBER MATERIAL IS PRESENT.

(3) REMOVE AND INSPECT ENGINE FUEL CONTROL FUEL INLET STRAINER IAW TM 55-2840-229-23.

B. IF THE LEAD WIRES SHOW ANY INDICATIONS OF ARCING, CHAFING, OR INSULATION DETERIORATION, REPLACE THE LIQUID TRANSMITTER.

C. INSTALL SPIRAL WRAP TUBING ON ALL ELECTRICAL LEADS FOR ALL LIQUID TRANSMITTERS LISTED IN PARA 6 AS FOLLOWS -

NOTE

ALTHOUGH IT IS NOT A REQUIREMENT TO REMOVE THE LIQUID TRANSMITTER TO INSTALL SPIRAL WRAP, IT MAY BE MORE EASILY ACCOMPLISHED WITH THE LIQUID TRANSMITTER REMOVED FROM THE FUEL CELL.

NOTE

SOME WIRE LEADS MAY HAVE SHRINK WRAP ALREADY INSTALLED ON A PORTION OF THE WIRE LENGTH. DO NOT REMOVE THE SHRINK WRAP. SPIRAL WRAP SHALL BE INSTALLED, AT A MINIMUM, IN THE AREA WHERE THE WIRE IS NOT PROTECTED.

(1) INSTALL SPIRAL WRAP TUBING, P/N 714M86/P11, NSN 9330-01-288-4347, FOR ENTIRE FREE LENGTH OF ALL WIRE LEADS.

(2) TO ALLOW FOR SOME FLEXIBILITY AND MOVEMENT OF THE SPIRAL WRAP, ASSURE THAT A SMALL GAP IS PRESENT BETWEEN THE WIRE

CONNECTOR AND THE END OF THE TUBING.

NOTE

QUESTIONS PERTAINING TO THE FUEL QUANTITY TEST SET, LIN:V77715, SHOULD BE DIRECTED TO MR. JOHN MCQUIRE, AMSAM-DGA-AS-AG, DSN 645-8540 OR COMMERCIAL (256) 955-8540.

D. CLOSE FUEL CELL IAW TM 55-1520-210-23-2.

E. PRESSURE TEST FUEL CELL AND TEST INSTALLATION FOR LEAKS PER INSTRUCTIONS IN TM 55-1520-210-23-2 AS REQUIRED.

Supply/Parts and Disposition

A. PARTS REQUIRED - ITEMS CITED IN PARAGRAPHS 6 AND 7 MAY BE REQUIRED TO REPLACE DEFECTIVE ITEMS. IF A LIQUID TRANSMITTER WITH A BLACK CUSHION CLAMP IS RECEIVED THROUGH SUPPLY, CONTACT THE LOG POC IN PARA 168 PRIOR TO INSTALLATION.

B. REQUISITIONING INSTRUCTIONS - REQUISITION REPLACEMENT PARTS USING NORMAL SUPPLY PROCEDURES. ALL REQUISITIONS SHALL USE PROJECT CODE (CC 57-59) *X0J* (X-RAY-ZERO-JULIET).

NOTE

PROJECT CODE *X0J* IS REQUIRED TO TRACK AND ESTABLISH A DATA BASE OF STOCK FUND EXPENDITURES INCURRED BY THE FIELD AS A RESULT OF SOF ACTIONS.

C. BULK AND CONSUMABLE MATERIALS -

NOTE

THE PLASTIC SPIRAL WRAP TUBING LISTED IS FUEL RESISTANT. NO SUBSTITUTIONS AUTHORIZED.

NOTE

THE PART NUMBER OF THE PLASTIC SPIRAL WRAP TUBING REQUISITIONED THROUGH NORMAL SUPPLY IS DIFFERENT THAN THE PART NUMBER USED BY THE MANUFACTURER. THEY ARE, HOWEVER THE SAME ITEM. THE MANUFACTURER SUPPLIES THE SPIRAL WRAP TO ANOTHER COMPANY, WHICH IN TURN, SELLS IT UNDER ITS OWN PART NUMBER TO THE GOVERNMENT.

NOMENCLATURE	PART NUMBER	NSN
PLASTIC SPRL WRAP TUBING	7148M86/P11	9330-01-288-4347
PREFORMED PACKING	MS29513-255	5330-00-291-3313
PREFORMED PACKING	MS29513-270	5330-00-291-3272

(1) PLASTIC SPIRAL WRAP TUBING MAY BE EITHER REQUISITIONED USING NORMAL SUPPLY PROCEDURES, OR PURCHASED DIRECTLY FROM THE MANUFACTURER. IF UNAVAILABLE THROUGH NORMAL SUPPLY PROCEDURES, DIRECT PURCHASE MAY BE ACCOMPLISHED FROM THE MANUFACTURER BY CONTACTING M.M. NEWMAN CORPORATION, 24 TIOGA WAY, P.O. BOX 615, MARBLEHEAD, MA 01945, PHONE (800) 777-6309 OR (781) 631-7100. ASK FOR THE GOVERNMENT SALES REPRESENTATIVE AND PROVIDE THE FOLLOWING INFORMATION

NOMENCLATURE	PART NUMBER	UNIT OF ISSUE
PLASTIC SPIRAL WRAP TUBING	HT 3/16T	100 FOOT ROLLS

(2) M.M. NEWMAN MANUFACTURES THIS TUBING IN SEVERAL COLORS. TO SPECIFY THE COLOR, SIMPLY ADD THE COLOR ON THE END OF THE PART NUMBER (I.E., HT 3/16T BLACK). BLACK IS THE PREFERRED COLOR AS IT IS THE COLOR IN THE GOVERNMENT INVENTORY. CLEAR (OR NATURAL) IS ACCEPTABLE.

D. DISPOSITION - DISPOSE OF REMOVED PARTS/COMPONENTS USING NORMAL SUPPLY PROCEDURES. ALL TURN-IN DOCUMENTS MUST INCLUDE PROJECT CODE (CC 57-59) *X0J*.

E. DISPOSITION OF HAZARDOUS MATERIAL - IAW ENVIRONMENTAL PROTECTION AGENCY DIRECTIVES AS IMPLEMENTED BY YOUR SERVICING ENVIRONMENTAL COORDINATOR (AR 200-1).

Special Tools and Fixtures Required

- N/A.

Application

A. CATEGORY OF MAINTENANCE - AVUM. AIRCRAFT DOWNTIME WILL BE CHARGED TO AVUM MAINTENANCE. REPORT AIRCRAFT NON-MISSION CAPABLE MAINTENANCE (NMCN) WHILE UNDERGOING INSPECTION AND CORRECTION IAW THIS MESSAGE.

B. ESTIMATED TIME REQUIRED -

- (1) TOTAL OF 6 MAN-HOURS USING 1 PERSON.
- (2) TOTAL OF 6 HOURS DOWNTIME FOR ONE END ITEM.

C. ESTIMATED COST IMPACT TO THE FIELD -

NOMENCLATURE	PART NO./NSN	QTY	COST EA.	TOTAL \$
LIQUID TRANSMITTER	205-061-633-17	1	\$443.49	443.49
	6680-00-133-7911			
LIQUID TRANSMITTER	205-061-633-19	1	755.60	755.60
	6680-00-133-7912			

TOTAL COST PER AIRCRAFT = \$1199.09

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

E. PUBLICATIONS WHICH REQUIRE CHANGE AS A RESULT OF THIS INSPECTION TM 55-1520-210-23-2 SHALL BE CHANGED TO REFLECT THIS MESSAGE. A COPY OF THIS MESSAGE SHALL BE INSERTED IN THE APPROPRIATE TM AS AUTHORITY TO IMPLEMENT THE CHANGE UNTIL THE PRINTED CHANGE IS RECEIVED.

References

- A. DA PAM 738-751, 15 MAR 99.
- B. TM 55-1520-210-23-2.
- C. TM 55-1520-210-23P-2.
- D. TM 55-2840-229-23.

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, COMMANDERS WILL FORWARD A PRIORITY MESSAGE, DATAFAX OR E-MAIL TO CDR, AMCOM, ATTN: AMSAM-SF-A (SOF COMPLIANCE OFFICER), REDSTONE ARSENAL, AL 35898-5000, IAW AR 95-1. DATAFAX NUMBER IS DSN 897-2111 OR (256) 313-2111. E-MAIL ADDRESS IS "SAFEADMREDSTONE.ARMY.MIL". THE REPORT WILL CITE THIS MESSAGE AND TB NUMBER, DATE OF ENTRY IN DA FORM 2408-13-1, THE AIRCRAFT MISSION DESIGN SERIES AND SERIAL NUMBERS OF AIRCRAFT IN NUMERICAL ORDER.

B. TASK/INSPECTION REPORTING SUSPENSE DATE (AIRCRAFT) - N/A.

C. REPORTING MESSAGE RECEIPT (SPARES) - N/A.

D. TASK/INSPECTION REPORTING SUSPENSE DATE (SPARES) - N/A.

E. THE FOLLOWING FORMS ARE APPLICABLE AND ARE TO BE COMPLETED IAW DA PAM 738-751, 15 MAR 99 -

NOTE

ULLS-A USERS WILL USE APPLICABLE "E" FORMS.

- (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.