



ATTACHMENT 5

AIRWORTHINESS GROUP CHAIRMAN'S FACTUAL REPORT

CEN13FA192

Maintenance Records for Tail Rotor Blade S/N A137-00708X (11 Pages)

SIKORSKY AIRCRAFT



Division of ERA HELICOPTERS
UNITED TECHNOLOGIES

884750

AUG 13 2001

64-10-00



COMPONENT LOG CARD

PART NO. 76101-05101-041

NOMENCLATURE TAIL ROTOR BLADE

SERIAL NO. A137-00708X

651700

AIRCRAFT NO.	DATE INSTALLED	DATE REMOVED	AIRCRAFT TIME	COMPONENT TIME		REASON FOR REMOVAL
				T.S.O.	T.T.	
760274	30 Nov. 1984		NEW	NEW	NEW	
760274		2 Oct 87	2230.0	New	2230.0	c/w 76-65-40
760274	13 Nov 87		2315.9	New	2230.0	
760274		17 Nov 90	3915.0	NEW	3915.0	REPAINT
760274	29 Nov 90		3915.0		3915.0	
760274		11-17-90	3915.0		3829.1	repaint
N579EH 760274	11-29-90		3915.0		3829.1	
N579EH 760274		6-22-01	7991.0		7905.1	erosion
575EH	10-9-01		1082.3		7905.1	
575EH	—	10-2-03	2841.1	9163.9	9163.9	Erosion
N578EH	6-16-04	—	5669.4	—	9663.9	
578EH	—	2/10/07	8227.8	—	12222.3	Due Removal
578EH	11-24-07	—	9327.3		12222.3	
578EH	—	1-7-2012	11905.5	151-312.1	14800.5	paint erosion; 1500hr plug/insp
574EH	01-29-2013	—	6759.8	151-0.0	14800.5	UGA290L

JAN 05 2004

ERA HELICOPTERS

RECEIVING INSP.

SA 7343-9 REV A.

64-10-10

OVERHAUL INTERVAL

RETIREMENT TIME

[]

12,000 HRS

12 YEARS

DATE	REPAIRS OR OVERHAULS	SIGNATURE	CERTIFICATE NO.
	Mfg. Date of Tail Rotor Blade #1: 6-14-84		
	#2: 6-14-84		
	Mfg. Date of Spar: 5-16-84		
4 September 1984	A.D. 84-06-02, Amd. 39-4829 - Inspection of Elliptical Centering Plug and Installation of Retaining Pad (A.S.B. 76-65-35A)	[REDACTED]	SIKORSKY AIRCRAFT QUALITY ASSURANCE
3 FEB 87 31 MAR 84	AD 86-19-14 ASB 76-65-38 INSPECTION OF T/R BLADE; RE-Moval of blade from SERVICE by Ser. Number	N/A by S/A [REDACTED]	[REDACTED]
SEPT 15, 1986	ASB 76-65-37 REINSPECTION OF T/R ^{BLADE} SPAR ASSY N/A by Serial Number COMPONENT TIME	[REDACTED]	[REDACTED]
OCT 28, 1986	ASB 76-65-39 INSPECT T/R blade spar for dis-banding.	[REDACTED]	[REDACTED]
9 OCT 1987	BLADE SPAR ASSY WAS INSPECTED RPER S/A ASB 76-65-40 AND FOUND TO MEET THE MANUFACTURES INSPECTION CRITERIA.	[REDACTED]	Certified Repair Station E63-138
4-25-88	C/W AD 84-06-02 / ASB 76-65-35A INSP SPAR ELLIPTICAL PLUG	[REDACTED]	[REDACTED]
12/29/88	C/W AD 84-06-02 AHEAD SPAR ELLIPTICAL PLUG	[REDACTED]	[REDACTED]
12/29/88	ASB 76-65-35A Tail Blade ELLIPTICAL Plug Insp	[REDACTED]	[REDACTED]
11/17/90	SANDED + REPAINTED BLADES I/A/W SIKORSKY INSTRUCTION	[REDACTED]	[REDACTED]
11/17/90	C/W 500HR INSP I/A/W COMPOSIT MANUAL INCLUDING	[REDACTED]	[REDACTED]
11/17/90	AD 84-06-02 T/R SPAR PLUG INSP C/W	[REDACTED]	[REDACTED]

10/29/88
 11/17/90
 11/17/90

REMARKS - PILOT OR INSPECTOR	MAINTENANCE WORK	SIGNATURE	DATE	
8-27-94	I/A/W AD 94-14-20 BY INSTALLATION OF 76102-05004-III RETAINING PAD I/A/W 76-65-35A PARA 2C. AD 84-06-02 NOW DOESN'T APPLY	[REDACTED]	8-27-94	
8-30-96	C/W insp. of T/R blades I/A/W Zone 3, item 7 - Repainted T/R blade assy at comp IT 7028:31	[REDACTED]	[REDACTED]	
11-19-98 total time (ACFT, 3712.5)	C/W AD 94-14-20 T/R DOWN plug map, RHC WO # 601250	[REDACTED]	11-19-98	
8-10-01 X-rayed, ultrasonic inspected per QATI 3016 and 3098, performed 1500 hour inspections, inspected pitch horns per AD 89-07-12, complied with ASB 76-65-41A, 76-65-43 & 76-65-46; Replaced both supplemental polyurethane strips per SA 4047-76-5 section 4-16 rev. 9; Replaced both primary polyurethane strips per RS-018M-1; Replaced pivot retainers 4 ea per RS-22L-V; Replaced pivot bearings 4 ea per MM SA 4047-76-2 section 65-21-01; Repaired skin on paddle A per RS-22M-VII; Repaired wire mesh and performed 4000 hr torque check per RS-018-III and RS-002N-III; Replaced tips on both paddles per RS-021C-II; Replaced and reassembled center hardware per MM SA 4047-76-2 section 65-21-01; Refinished paint per Drwg. No. 76101-05020; Static balanced per drwg. 76101-11528 adm. 20 and drwg. 76101-11529 rev. C @ TTSN 7905.1 Pertinent details pertaining to the inspection, alteration and/or repairs are on file at this repair station under W.O. 29506 FAA CRS RW1R467K.	[REDACTED]	[REDACTED]	8-10-01	
10/11/01 575EH ACTT 1082.3-	C/W AD 94-14-20 & ASB 76-65-35B on Arrow Aviation - WO - 01-177 12-30-03 X-rayed, ultrasonic inspected per QATI 3016 and 3098, performed all scheduled inspections up to and including 1500 hr. Inspection in accordance with Composite Materials Manual 4047-76-5 table 2-2 and Maintenance Manual 4047-76-2, 65-21-00 and 65-21-01, inspected elliptical plug for debonding per A.D. 94-14-20, complied with ASB 76-65-43 & 76-65-46; Replaced spar plug per RS-022L-II; Repaired trailing edge damage on paddle A per RS-018M-IV; Repaired gouge in pitch horn bushing area on both paddles per ORI 76100-018 part VI; Replaced both primary polyurethane strips per RS-018M-1; Replaced both supplemental polyurethane strips per SA 4047-76-5 section 4-16 rev. 9; Replaced and reassembled center hardware per MM SA 4047-76-2 section 65-21-01; Refinished paint per Drwg. No. 76101-05020; Static balanced per drwg. 76101-11528 adm. 20 and drwg. 76101-11529 rev. C @ TTSN 9663.9 All repairs were performed utilizing designed, process specification, drawings, manuals or other media supplied by the manufacture. Pertinent details to the inspection, alteration and repairs are on file at this repair station under W.O. 32570 FAA CRS RW1R467K.	[REDACTED]	[REDACTED]	12-30-03

T/R BLADE P/N 76101-05101-041 S/N A137-00708

REMARKS - PILOT OR INSPECTOR	MAINTENANCE WORK	SIGNATURE	DATE
11-7-91 C/W AD 84-06-02, ASB 76-65-35A INSPECT SPAR PLUG - FOUND OK - INSPECTED EDGE OF SPAR I/A/W SIKORSKY MSG # CBT-TC-91-1512 AND NO CRACKS FOUND BLADE T.T. 4364:48 A/C TIT 4364:48			
			11-7-91
3-27-92 4497:27 AKT	C/W AD 84-06-02 INSP. T/R BLADE ELLIPTICAL SPAR PLUG.		3-27-92
11-20-92 4788:20	C/W AD 84-06-02 INSP. OF T/R BLADE ELLIPTICAL SPAR PLUG		11-20-92
7-25-93 TT: 5078:49	C/W ASB 76-65-43 INSP. Bumper pads For proper gaps Red - I.B. .107 Yellow I.B. .105 O.B. .100 O.B. .92		7-25-93
10-12-93 TT 5229:22	C/W ASB 76-65-44 T/R BLADE FAIRING MODIFICATION C/W AD 84-06-02 ELLIPTICAL PLUG INSPECTION		10-12-93
6-2-94 TT: 5721:05	C/W AD 84-06-02 INSPECTION OF TAIL ROTOR BLADE ELLIPTICAL SPAR PLUG.		6-2-94

DEX TO: [REDACTED]

ATTN: MR ED ROSENBECK
CENTERLINE AVIATION INC

MSG. NO.: CBT-TC-87- 528

DATE: 9 OCTOBER 1987

FM: ART SMITH

RE: S-76 T/R BLADE COMPUTED TOMOGRAPHIC INSPECTION RESULTS

THE BELOW LISTED S-76 TAIL ROTOR BLADE(S) RADIOGRAPHIC FILMS HAVE BEEN EVALUATED IN ACCORDANCE WITH THE INSPECTION REQUIREMENTS OF ASD 76-65-40 AND EVALUATED IN ACCORDANCE WITH THE MANUFACTURED ACCEPTANCE CRITERIA. THE EVALUATION FINDINGS FOR EACH BLADE IS LISTED.

BLADE S/N	SPAR S/N	A/C S/N	OPERATOR	MEETS CRITERIA
A137-00708	A116-01207	76XXXX	TRAVELERS	YES (PARA A)
A137-00709	A116-01271	76XXXX	TRAVELERS	YES (PARA A)

- (A) IF BLADE WAS FOUND TO MEET THE INSPECTION CRITERIA, DO THE FOLLOWING: (1) MARK BLADE AIRFOIL AND SPAR ASSEMBLIES WITH (X) PER ASD 76-65-40.
 (2) ENTER THE FOLLOWING STATEMENT ON THE BLADE'S COMPONENT LOG CARD. "BLADE SPAR ASSEMBLY WAS INSPECTED PER S/A ASD 76-65-40 AND FOUND TO MEET THE MANUFACTURERS INSPECTION CRITERIA."
 (3) CHANGE BLADE SPAR ASSEMBLY RETIREMENT LIFE TO 12,000 HRS/12 YEARS.

- (B) IF BLADE WAS FOUND NOT TO MEET THE INSPECTION CRITERIA, DO THE FOLLOWING: (1) REMOVE AND FORWARD BLADE ASSEMBLY AND COMPONENT LOG CARD TO:



- (2) NOTIFY COMMERCIAL PRODUCT SUPPORT IF LOANER BLADE(S) IS REQUIRED.

BLADE(S) SHOULD BE FORWARDED TO S/A BY FASTEST POSSIBLE MEANS. ALL SHIPPING CHARGES WILL BE AT THE OPERATORS EXPENSE.

THIS MESSAGE IS AUTHORITY TO ENTER THE ABOVE STATEMENT ON THE BLADES COMPONENT LOG CARD, AND MUST BE ATTACHED TO THE LOG CARD AS A PERMANENT RECORD.



CC: R. HOUSE, L. KROHELSKI, B. MURPHY, R. PEASE, P. POTTS, T. VERNES, T. SANDBERG, J.B. ROBINSON

FAX [REDACTED]

ATTN: JIM DE MARR - KEYSTONE HELICOPTER

MSG. NO.: CBT-TC-91-1512

DT: 7 NOV 91

FM: ROY K. MOORE - SIKORSKY AIRCRAFT - FAX: [REDACTED]

RE: A/C 760274, TRB S/N A137-00708, SPAR S/N A118-01207,
TSN: 4364.8 - PAINT CRACK INDICATION ON EDGE OF SPAR
APPROX 3 IN. OUTBOARD OF PIVOT BEARING.

IT IS UNDERSTOOD THAT THE 2 AREAS WHERE THE PAINT CRACKS WERE
DETECTED, HAD POOR PAINT ADHESION WHICH WAS IDENTIFIED BY THE
PAINT BEING VERY EASILY REMOVED WITH A PLASTIC SCRAPER. THE
FOLLOWING INSPECTION OF THE SPAR IS TO BE PERFORMED AS FOLLOWS:

- * REMOVE PAINT FROM SPAR IN THE SURROUNDING AREA
- * PERFORM ALCOHOL WIPE IN THESE AREAS FOR 1/2 HOUR
- * AT THE SAME TIME, FLEX THE SPAR FOR POSSIBLE CRACK
INDICATION.

IF INSPECTION OF SPAR CONFIRMS THE CRACKS TO BE IN THE PAINT ONLY,
RESTORE PROTECTIVE FINISH ON SPAR AND CONTINUE T/R BLADE ASSY IN
SERVICE.

NOTE: INSPECT THIS AREA OF THE SPAR AT THE NEXT SCHEDULED 500 HR
INSPECTION.

REGARDS,
[REDACTED]

CC: L.KROHELSKI, A.SMITH, C.LYNCH, M.GAMAUF, P.POTTS, REPS,
W.REINFELDER

1. Approving National Aviation Authority/Country: FAA/United States	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: S76T-137-00708
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4. Organization Name and Address: Bell Helicopter Textron Inc. 580 St. Etienne Rd Suite A, Broussard, LA 70518	5. Work Order/Contract/Invoice Number: S76T-137-00708
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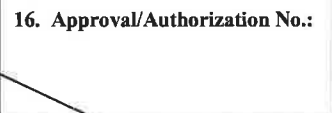



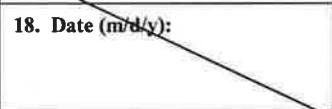

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	Tail Rotor Blade	76101-05101-041	N/A	1	A137-00708X	REPAIRED

13. Remarks: Inspected I.A.W. CMM-SA-4047-76-5 Table 2-2, Installed boot on "A" & "B" paddles per MM-SA-4047-76-2 (65-21-01) page 203, Replaced polyurethane supplemental strips on "A" & "B" paddles per CMM-SA-4047-76-5 proc. 10 (4-16), Complied with ASB 76-65-60 (spar inspection 500 hour), Complied with 1500 hr inspection per SA-4047-76-2-1 checklist zone 3, item 4-4A, Refinished per CMM-SA-4047-76-5 proc. 6 (4-10), Balanced tail rotor component. All actions performed per Sikorsky and BHTI specs. Reference W.O. # S76T-137-00708.

T/T 14800.5

BHTI certifies that the work specified in block 12/13 was carried out in accordance with EASA Part 145 and in respect to that work the component is considered ready for release to service under EASA Part 145 Approval Number "EASA.145.6022"

14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.	19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
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15. Authorized Signature: 	16. Approval/Authorization No.: 	20. Authorized Signature: 	21. Approval/Certificate No.: 
17. Name (Typed or Printed): 	18. Date (m/d/y): 	22. Name (Typed or Printed): 	23. Date (m/d/y): MAR/22/2012

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.