UNITED KINGDOM
CIVIL AVIATION AUTHORITY

FR 10
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SIKORSKY
S-76A, S-76B, S-76C

TYPE CERTIFICATE DATA SHEET No. FR10

This data sheet which is part of CAA Type Certificate No. FR10 prescribes conditions and limitations under which the product, for which the type certificate was issued, meets the airworthiness requirements of the Civil Aviation Authority.

TYPE CERTIFICATE HOLDER:

Sikorsky Aircraft Corporation
6900 Main Street
Stratford
Connecticut 06615-9129
USA

MANUFACTURER:

Sikorsky Aircraft Corporation
6900 Main Street
Stratford
Connecticut 06615-9129
USA

AIRCRAFT TYPE/
MODEL NUMBER(S):

S-76, S76A, S-76B, S-76C

TYPE DESIGN DEFINITION:

The baseline S-76 configuration is defined by the following Sikorsky drawing lists:

S-76A 76000-00001-041

S-76A (modified) 76000-00001-041 as modified by 76070-00100-011 (Arriel 1S) or 76070-30600-011 (Arriel 1S1)

S-76B 76076-10500-011 (up to and including SN 760382)
76076-10700-041 (SN 760387 and subsequent)

S-76C 76076-10600-041 (Arriel 1S1)
S-76C (modified) 76076-10660-011 (Arriel 2S1 up to SN 760493)
76076-20660-041 (Arriel 2S1 SN 760494 and subsequent)
Note: Arriel 1S1 engines may be replaced with 2S1 engines in accordance with Sikorsky kit 76070-30662-011

CERTIFICATION BASIS:

The following requirements are the basis of certification:-

S-76A United States of America FAR Part 29 dated 1 February 1965 and Amendments 29-1 thru 29-11; parts of Amendment 29-12, specifically 29.67, 29.71, 29.75, 29.141, 29.173, 29.175, 29.563, 29.801, 29.807(d), 29.931, 29.1189(a)(2), 29-1555(c)(2), 29.1557(c), and 29.25 and 29.865 when cargo hook system P/N 76255-02000 is installed; part of Amendment 29-13, specifically 29.965 and portions of amendment 29-21, specifically 29.1, 29.79, 29.1517 and 29.1587. Instrument flight criteria for S-76 (interim) dated 10 February 1977. FAA Special Conditions 29-82-NE3 issued 27 March 1978. And equivalent Safety findings by FAA for FAR 29.173(b).

Partial grant of exemption from FAR29-811(h) by Regulatory Docket No.17403 dated 9 January 1979 is accepted for United Kingdom certification.

United Kingdom CAA Special Survey Report No. 4459 and United Kingdom Additional Requirements, Ref. 9/31/RY2001.

S-76B FAA requirements as for S-76A plus part of Amendment 29-24, specifically 29-1325(f).
Partial grant of exemption from FAR 29.811(h) dated 3 July 1985 and Equivalent Safety findings by FAA for 29.1013(e), 29.1203(a)), 29.1181(a)(6) and 29.1189(a).

United Kingdom Additional Requirements, Ref. 9/31/RY3701.

S-76C FAA requirements as for S-76A plus 219.1325 of Amendment 29-24; part of amendment 29-26, specifically 29.67(a)(2) & (3)(b), 29.923 (k), 29.1045©, 29.1047(a)(4) and 29.1521(h); 29-811 of Amendment 29-30 and Amendment 36-14 of FAR 36 Appendix H.

United Kingdom Additional Requirements, Ref. 9/31/RY3701.

S-76C (Modified) FAA requirements as for S76C with the addition of 29.67(a), (b)(1) and (3), 29.1143(f), 29.1305(a)(24) and (25), 29.1521(I) and (j) and 29.1549(e) of amendment 29-34 (30 second/2 minute one engine inoperative power rule) and amendment 36-20 of FAR36, Appendix H, Also, Special Condition No 96-ASW-16.

United Kingdom Additional Requirements, Ref. 9/31/RY3701.

CERTIFICATION CATEGORY: UK: Transport Category (Passenger)

PERFORMANCE CATEGORY:

S-76A	UK: Group A and Group B
S-76A (modified with Arriel 1S)	UK: Group A and Group B
S-76B	UK: Group A and Group B
S-76C	UK: Group A and Group B
S-76C (modified)	JAA Category A and Category B

FLIGHT MANUAL

The limitations, recommended procedures and information required are contained in the following CAA approved Rotorcraft Flight Manuals.

Sikorsky Model S-76A	Publication No. SA4047-76-1-1 (Supplement 8 required for Arriel 1S engines).
Sikorsky Model S-76B	Publication No. SA4047-76B-1-1
Sikorsky Model S-76C	Publication No. SA4047-76C-1-1
Sikorsky Model S-76C+	Publication No SA4047-76C-10-10 (S76C Modified) with Arriel 2S1 engines)

ROTORS

S-76A Main rotor blade Part No. 76150-09000 or -09100
Tail rotor blade assembly Part No. 76101-05101-041 or 76101-05001 series.

S76B and S-76C — Main rotor blade Part No. 76150-09100-052 or subsequent.
Tail rotor blade assembly Part No. 76101-05501 series or subsequent.

POWER UNIT

S-76A — Two Detroit Diesel Allison Model 250-C30 or C30S engines or one of each.

S-76A (modified)
(i) Two Turbomeca Arriel 1S engines installed in compliance with Turbomeca Modification TU1 or STC SH568NE (CAA Airworthiness Approval Note No. 19924).

(ii) Two Turbomeca Arriel 1S1 engines installed in compliance with STC SH568NE (CAA Airworthiness Approval Note No. 27500)

S-76B — Two Pratt and Whitney Canada PT6B-36A engines.

S-76C — Two Turbomeca Arriel 1S1 engines.

S-76C (modified) — Two Turbomeca Arriel 2S1 (CAA Airworthiness Approval Note No. 25242).

MAXIMUM WEIGHTS

S-76A — Maximum take-off and landing weight: 10,500 lb (4763 kg)

S-76A (Modified) — When fitted with Turbomeca Arriel 1S or 1S1 engines and further modified by Sikorsky Kit No. 76070-20100, in accordance with CAA Airworthiness Approval Note No. 21734 the maximum take-off and landing weight is: 10,800 lb (4899 kg)

S-76B and S-76C — Maximum take-off and landing weight: 11,700 lb (5307 kg)

DIMENSIONS:

	Ft	M
Length	52.5	16.00
Wingspan	44.0	13.41
Height	14.48	4.414
Wing area	N/A	N/A

MINIMUM CREW: UK: One Pilot.

MAXIMUM OCCUPANTS/PASSENGERS:

Number of persons, including crew is not to exceed 14. The number is limited by the capacity of the fuselage.

OPERATING LIMITATIONS: Refer to the appropriate CAA approved FAA Flight Manuals

MANDATORY MAINTENANCE INSTRUCTIONS: Information essential to the proper maintenance of the helicopter is contained in the following Sikorsky Maintenance Manuals:

S-76A Publication No. SA4047-76-2

S-76A (modified) Publication No. SA4047-76-2 as supplemented by A+ Arriel 1S Supplemental Maintenance Manual

S-76B Publication No. SA4047-76B-2

S-76C Publication No. SA 4047-76C-2

Retirement (service) life and inspection intervals are listed in the following Sikorsky Airworthiness Limitations and Inspection Requirements Manuals:

S-76A Publication No. SA4047-76-2-1

S-76A (modified) Publication No. SA4047-76-2-1
as supplemented by Supplement 1

S-76B Publication No. SA4047-76B-2-1

S-76C Publication No. SA 4047-76C-2-1

NOISE: CAA Noise Type Certificate for:

S76 - A	No. 127
S76 - B	No. 127
S76 - C	No. 127

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