Civil Aviation Authority

United Kingdom

FR12
Issue 2
November 1993
BELL
MODELS 222, 222B, 222U

TYPE CERTIFICATE DATA SHEET NO. FR12

This data sheet is part of CAA Type Certificate No. FR12, and gives the basis upon which the Certificate was issued, together with other information to define the product.

Aircraft Manufacturer:	BELL HELICOPTER TEXTRON 12,800 Rue de l'Avenir St-Janvier Quebec JON1LO Canada
Type to which the Certificate relates:	Model 222
Approved Variants**:**	Models 222B and 222U

CERTIFICATION BASIS:

The following requirements were the basis of certification of the type design:-

Model 222

United States of America FAR Part 29 dated l February 1965 (Transport Category B) Amendment 29-1 through 29-9, and Amendment 29-11. FAR 29.997 of Amendment 29-10 and FAR 29.927(b)(2) of Amendment 29-17. Special conditions No. 29-87-SW-7. Ditching FAR 29-801 of Amendment 29-12. External cargo FAR 29.865 of Amendment 29-17. United Kingdom CAA Special Conditions Ref. No.9/31/RY2401.

Grant of exemption from FAR 28.811 (h)(1) by exemption No.2789 is accepted for United Kingdom certification.

Model 222B and Model 222U

United States of America FAR Part 29 dated February 1, 1965, (Transport Category A&B)
Amendment 29-1 through 29-9. Amendment 29-11. FAR 29.997 of Amendment 29-10 and
FAR 29-927(b)(2) of Amendment 29-17. Ditching FAR 29.801 of Amendment 29-12. External cargo FAR 29.25(c) and 29.865 of Amendment 29-12. FAR 29.1557(c) and FAR 29.1555(c) of Amendment 29-12. Height velocity requirements of Amendment 29-21, Section 29.1, 29.79, 29.1517 and 29.1587. IFR requirements dated December 15, 1978.

FAA issued Exemption No. 2789. FAR 29.811(h)(1) and Exemption No.4395. FAR 29.855(a) and portions of 29.855(d).

Equivalent Safety Findings:-

1. Power Turbine Common Control	FAR 29.903(b)
2. Fuel Pressure Switch	FAR 29.1305(b) (2)
3. Fireproof Oil System	FAR 29.1189
4. Crash Resistant Fuel Cell	FAR 29.963 (b) & 29.965
5. Crew Door Switch	FAR 29,783(e)
6. Unsafe Rotor & Engine Out Warning Indicator	FAR 29,33(b), 29.1309(d), 29.1357(e) & Special Flight Condition No. 2
7. Aft Window Exit Size	FAR 29.807 (a) (4)
8. Main Door Window Exit Size for Ditching	FAR 29.807 (d) (1)
9. Hoist Manual Release	FAR 29.865 (b) (2)
10. Baggage Compartment Liner	FAR 29.855 (a)
11. Landing Gear Drop Test	FAR 29.307 (b) (5), 29.723, 29.725 & 29.727 (Model 222U) FAR 29.1559 (Model 222U)
12. Limitations Placard	IFR Criteria paragraph 4(a) (Model 222U)
13 IFR Dihedral Stability	

United Kingdom Additional Requirements for Certification of the Bell 222, 222B and 222U Models in the Transport Category, Ref. No. 9/31/RY2401.

FLIGHT MANUAL

The limitations, recommended procedures and information required are contained in the following Flight Manuals:-

Model 222 CAA approved Flight Manual (CAA configuration)
Ref: BHT-222-FM-CAA

Model 222B DOT(Canada) approved Rotorcraft Flight Manual
Ref. BHT-222B-FM-1 with Supplement ref BHT.222B-FMS-CAA for Helicopters Registered in the United Kingdom (CAA configurtion).

Model 222U DOT(Canada) approved Rotorcraft Flight Manual
Ref. BHT-222U-FM-1 with Supplement ref BHT-222U-FMS-CAA for Helicopters Registered in the United Kingdom (CAA configuration).

AIRWORTHINESS CATEGORY:

UK: Transport Catgory (Passenger)

PERFORMANCE GROUP:

UK: Group A and Group B

MINIMUM CREW:

UK: One pilot

MAXIMUM NUMBER OF OCCUPANTS

Number of persons, including crew, not to exceed 10. The number is limited by the capacity of the fuselage and the number and size of emergency exits.

ROTORS:

Main rotor, semi-rigid two-bladed

Blade Part Nos:	Model 222	222-015-500
	Models 222B and 222U	222-015-600

Main rotor gearbox Part No. 222-040-003
Tail rotor, two bladed
Blade Part No. 222-016-001

POWER UNITS:

Model 222	Two Avco Lycoming LTS101-650C-2 or C-3 engines
Models 222B and 222U	Two Avco Lycoming LTS101-750C-1 engines.

FUEL CAPACITY:

The total capacity of the interconnected fuel cells, in Imp. gallons:

	Usable	*Unusable*	*Total*
Models 222 and 222B	156.1	1.9	158
Model 222U	205.7	2.0	207.7

OIL CAPACITY:

The capacity of each engine oil system is 3.1 Imp. gallons.

MAXMUM WEIGHTS:

Maximum approved internal gross weight for take-off and landing:-

Model 222	7850lb (3561kg)
Models 222B and 222U	8250lb (3742kg)

NUMBER OF WHEELS AND MAXIMUM TYRE PRESURES*

Number of wheels in the nose-wheel unit:	1
Number of main=owheel units:	2
Number of wheels in each main-wheel unit:	1

Maximum tyre pressures:-		Nose Wheel	Main Wheels
	Model 222	75lbf/in^2	75lbf/in^2
	Model 222B	75lbf/in^2	87.5lbf/in^2

*NOTE: The Model 222U has a skid type landing gear.

- END -