UK CIVIL AVIATION AUTHORITY
PROPELLER TYPE CERTIFICATE DATA SHEET NO. 108

Issue 5
4 October 1995

1. CERTIFICATION

Propellers of types detailed below are approved for use on civil aircraft classified in the Transport Category (Passenger) listed in item 4 of this data sheet when they are installed, operated and maintained in accordance with the approved manufacturer's manual and other approved instructions.

2. CONSTRUCTOR

Dowty Aerospace Propellers
Cheltenham Road
GLOUCESTER
GL2 9QH

3. TYPE NUMBER

(C) R.333/4-82-F/12

4. APPROVED INSTALLATION

4.1 Installations

Propeller Model	Aircraft	Engine
(c) R.333/4-82-F/12	British Aerospace Jetstream Series 3100 Max. T.O. Weight 7059 Kg	Garrett Turbine Engine Company Type 331-10 UF-501H -10 UF-511H -10 UF-512H -10 UF-513H -10 UR-513H -10 UG-513H -10 UGR-513H -10 UG-514H -10 UGR-514H Take-off Rating 940 SHP at 1591 propeller r.p.m

(c) R.333/4-82-F/12 British Aerospace		Garrett Engine Division
	Jetstream Series 3200 Max. T.O. Weight 7350 kg	Type 331-12UA-701H 331-12 UAR-701H 331-12UAR-703H 331-12UAR-705H 331-12UAR-707H Take-off Rating 1020 SHP at 1591 propeller rpm

5. CERTIFICATION BASIS

Propeller Approval for 900 SHP at 6400 kg max. T.O. weight was originally granted by CAA letter ref. 9/216/PR7/6 Jetstream dated 16 March 1982 and was extended to include additional engine variants, aircraft weight and engine power increases by supplementary approval letters dated 15 August 1984, 13 August 1986 and 12 August 1987. The basis for certification was BCAR section A Issue 24 and Section C Issue 13.

6. PROPELLER PARTICULARS

6.1 Build Standard

Specified in DIS No. 66070900C Section D (or latest approved issue).

General arrangement drawing No.	660709250
Installation drawing No.	660709021-1
Blade assembly drawing No.	660716237
Design Specification No.	81.DS.0357

6.2 Description

Variable pitch, constant speeding, feathering, reversing, using hydraulic control and counter weights. Beta control provides manual pitch selection for aircraft braking and ground manoeuvring.

6.3 Number and Description of Blades

Four blades of solid duralumin construction with ARA-D aerofoil sections.

6.4 Diameter

106 inches (2.69 meters)

6.5 Rotation

Rotation is counter-clockwise viewed from the rear of the propeller (left hand tractor).

6.6 Engine Shaft Mounting

AS 880 flange.

6.7 Weight

Complete with spinner - 189 lb approximate (reference only).

6.8 Equipment

Spinner	-	Dowty Type (c) SB10/4/1
Bulkhead	-	Dowty Type 664005201
De-icing Equipment	-	Dowty De-icing Equipment List:- 660.000917/17A(TPE331-10 Engine) 660.000928/28A(TPE331-12 Engine)

6.9 The following equipment is associated with the propeller type approval but is not supplied by Dowty Aerospace Propellers.

Propeller pitch control unit	-	Woodward Type 897410-7, 9 or 11 (TPE 331-12) 897410-7, 9 or 11 (TPE 331-12)
Feathering pump	-	Weldon Tool Co Type C4033-E

7. MANUALS

Propeller Overhaul Manual	61-10-24
Propeller Maintenance Manual	Publication No. 1008
Spinner Overhaul Manual	61-10-22

8. NOTES

8.1 The approval does not show that compliance with the aircraft de-icing requirements has been achieved.

8.2 The engine minimum ground idle r.p.m must not be less than 72% of the rated take-off r.p.m.

8.3 The approval does not include the aircraft/engine/propeller control system as installed in the aircraft.