UK CIVIL AVIATION AUTHORITY
PROPELLER TYPE CERTIFICATE DATA SHEET NO. 111

Issue 1
December 1990

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 manufacturers manuals and other approved instructions.

2. CONSTRUCTOR

Dowty Aerospace Gloucester Limited
Cheltenham Road
Gloucester
United Kingdom

3. TYPE NUMBER

(c) R350/4-123-F/12

4. APPROVED INSTALLATION

Propeller Model	Aircraft	Engines
(c) R350/4-123-F/12	Grumman Tracker S-2T Max Take-off Weight 28,900 lbs	Garrett TPE331-15AW rated at 1645 SHP at 1390 propeller r.p.m

5. CERTIFICATION BASIS

JAR-P change 7 dated 22 October 1987

6. PROPELLER PARTICULARS

6.1 Build Standard

Specified in D.I.S. 660000000C

General arrangement drawing no.	660710112
Installation drawing no.	660710012
Blade assembly drawing no.	660713264
Design specification	83DS0398

6.2 Description

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

6.3 Number and Description of Blades

Four blades, composite glass and carbon reinforced plastic construction, polyurethane coated for erosion protection.

6.4 Diameter

132 inches (3.35 metres)

6.5 Rotation

Rotation is clockwise viewed from the rear of the propeller (right hand tractor).

6.6 Engine Shaft Mounting

Special flange, see installation drawing 660710012 for details.

6.7 Weight

1. Complete with spinner - 230 lbs approximately (for reference only).

6.8 Equipment

Spinner - Dowty Rotol Type (c) SB.22/4/1.

Blade De-icing - Dowty Rotor Type 660000043 (see note 8.1.).

Propeller Governor - Woodward Type 3105716-3 (See note 8.2).

Propeller Pitch Control	-	Garrett 895481-5 (see note 8.2)
Engine Torque Sensor	-	Garrett 3104488-4 (see note 8.2)
Motor Pump Unit	-	Weldon Type A.4049A (see note 8.2)
Synchrophasing Equipment Type	-	Woodward: pickup coil 213181 phase control unit 213807 (See note 8.2)

7. MANUALS

Equipment Maintenance Manual	1083
Propeller Overhaul Manual	61-10-37
Spinner Overhaul Manual	61-10-38
Equipment Set Overhaul Manual	61-00-05

8. NOTES

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

8.2 The propeller type has been shown to function satisfactory with this propeller equipment; however the listing does not signify CAA approval of the equipment supplied by the engine or aircraft manufacturer.

9. LIMITATIONS

9.1 There are no life limited components.

9.2 All ground running in the propeller speed band 96% - 100% rpm, with the aircraft stationary must be carried out with the aircraft heading into wind $\pm$ 30° maximum, for wind speeds in excess of 8 knots.

9.3 Cross and down wind take-offs with wind speeds in excess of 8 knots must be rolling, i.e. full power applied following brake release.