UK CIVIL AVIATION AUTHORITY
PROPELLER TYPE CERTIFICATE DATA SHEET NO. 107

Issue 3
March 1993

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 Propellers
Cheltenham Road
Gloucester
United Kingdom

3. TYPE NUMBER

(c) R.212/4-30-4/22
(c) R.251/4-30-4/49

4. APPROVED INSTALLATIONS

Aircraft

British Aerospace HS.748 Series 2, 2A and 2B

Maximum Take-off Weight 46,500 lb

Engines

Rolls Royce Dart	Mks.	531, 531U, 532-2, 532-2L, 533-2, 534-2, 535-2, 536-2, 536-2T, 550-2, 552-2
and	Mks	532-2, 533-2, 534-2, 535-2, 536-2, 536-2T all fitted with Engine Modification No. 1860.

5. CERTIFICATION BASIS

Approval of the basis propeller type was originally given by A.R.B. letter reference PR7 dated 31st October 1962 and subsequently amended to include variants of propeller type, engine type, aircraft type and weight. The certification basis was BCAR Section A Issue 5 and Section C Issue 5.

6. PROPELLER PARTICULARS

6.1 Build Standard

Specified in DIS No.71 (or latest issue)

	R212	R251
General Arrangment Drawing No.	RA 69934	660207101
Installation Drawing No.	RA 43199	600100251
Blade Drawing No.	RA 25953-1 601023029	RA25953-15

Design Specification 67.DS.0188

6.2 Description

Variable pitch, constant speeding, feathering, single pitch lock using hydraulic control via three oil control lines, embodying electric thermal deicing for the propeller blades and spinner.

6.3 Number and description of blades

Four blades of solid aluminium alloy construction rebated to permit flush fitting of the deicing overshoes.

6.4 Diameter

144 inches (3.65 metres)

6.5 Rotation

Rotation is anticlockwise viewed from the rear of the propeller (left hand tractor).

6.6 Engine Shaft Mounting

SBAC Number 4 shaft

6.7 Weight

Complete propeller with spinner 439 lb. approximately (for reference only).

6.8 Equipment

Spinner	Dowty Type (c) 4CM/53E
Controller	Dowty Type (c) CU/99
Feathering pump	Dowty Type (c) RFP/26
Synchronising Equipment comprising of	Dowty Type (c) SN2/10
Alternator	Dowty Type (c) SNA4/1
Corrector Motor	Dowty Type (c) SNC/20
Control Panel	Dowty Type (c) SNP/5

7. MANUALS

Maintenance Manual	Publication No. 905
Overhaul Manual	61-10-1

8. NOTES

1. Continuous ground running of the propeller between 8,500 - 9,500 engine rpm is to be avoided.