

AVRO AIRCRAFT LIMITED

AMENDMENT NO. 4

TO

DESIGN CERTIFICATE

FOR FLIGHT TRIALS OF ARROW 1 AIRCRAFT  
SERIAL NO. 25202 TO 25205 INCL.

The following forms a part of, and shall be read in conjunction with, the Design Certificate for Flight Trials of Arrow 1 Aircraft Serial No. 25202 to 25205 inclusive, dated 26 May 1958.

SECTION B - SPECIAL LIMITATIONS FOR ARROW FLIGHT TRIALS

Delete: Para. 2.1 (a) The aircraft are limited to speeds not exceeding 500 knots EAS or 1.75 Mach number.

Add: Para. 2.1 The aircraft are limited to speeds not exceeding 500 knots EAS or 1.9 Mach number.

Delete: Para. 2.2 The aircraft are not to be flown at altitudes exceeding 50,000 ft. for periods exceeding 5 minutes.

Para. 2.3 (a) The aircraft are limited to intentional maneuver normal load factors not exceeding a positive load factor equal to  $\frac{250,000}{w}$ , and a negative load factor equal to  $\frac{141,000}{w}$ , where w is the weight of the aircraft at the beginning of the maneuver.

eg:  $w = 62,500 \text{ lb.}$

$$n \text{ pos} = \frac{250,000}{62,500} = 4.0$$

$$n \text{ neg} = \frac{141,000}{62,500} = 2.26$$

Add: Para. 2.3 (a) The aircraft are limited to intentional maneuver normal positive load factors not exceeding a load factor equal to  $\frac{150,000}{w}$  during supersonic flight, and  $\frac{250,000}{w}$  during subsonic flight, where w is the weight of the aircraft at the beginning of the maneuver.

Continued On Page 2

S E C R E T

Add: Para. 2.3 (b) The aircraft are limited to intentional maneuver normal negative load factors not exceeding a load factor equal to  $\frac{80,500}{W}$  during supersonic flight, and  $\frac{141,000}{W}$  during subsonic flight, where  $w$  is the weight of the aircraft at the beginning of the maneuver.

DATE...28<sup>th</sup> Aug. 1958.....

SIGNED [Signature].....

for Chief Engineer