



Inter-Departmental Memorandum

Ref 3352/22/J
Date September 2, 1958
To Mr. S. E. Harper
From T. Roberts
Subject AIRCRAFT 25203 - FIRST FLIGHT

Herewith R.F.T. 07-5085 Add. 1 giving the tests required on the first flight of the above aircraft. This addendum supercedes any other R.F.T.'s issued to cover the first flight of this aircraft.

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FLIGHT TEST

/b

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AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

R.F.T. NO. 07-5085 Add. 1

SHEET NO. 1 OF

DATE: September 2, 1958

AIRCRAFT 25203

ASSIGNMENT X73-380

WORK ORDER NO.

FIRST FLIGHT OF A/C 25203

1. OBJECTIVES

- 1.1 Check for vibration with U/C doors shut.
- 1.2 Obtain photographs of aircraft against horizon.?
- 1.3 Assess behaviour of yaw damper.

2. INSTRUMENTATION

- 2.1 Photo panel to be recording during flight.
 - 2.2 Two chase aircraft are required: one sabre 6 and one CF100 Mk. 5.
 - 2.3 Two Vinten F47 Cameras.
 - 2.4 One high speed camera (approx. 1000 frames/sec)
- (items 2.4 and 2.5 are to cover taxi runs and take-off and landing).

3. AIRCRAFT CONFIGURATION

- 3.1 Undercarriage extended during entire flight.
- 3.2 Undercarriage doors to be locked in the shut position.

4. TEST PROCEDURE

- 4.1 Prior to first flight, taxi runs up to approx. 120 kts, should be carried out to check the functioning of the landing parachute, the wheel brake system, and the damping system.
- 4.2 A pre-flight cockpit check should be carried out as given in Appendix 1 of R.F.T. 07-5024.
- 4.3 Aircraft speed is restricted to 250 knots EAS. Pilot to note any vibration during flight due to the gear being extended.
- 4.4 At 10,000 ft. between 200 kts. EAS and 250 kts. EAS. assess handling with damper off.

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AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

R.F.T. NO. 07-5085 Add. 1

SHEET NO. 2 OF

DATE: September 2, 1958

AIRCRAFT 25203

ASSIGNMENT X73-380

WORK ORDER NO.

4.5 Yaw Damper Checks

4.5.1 At flight condition of 4.4 engage normal damper gear down mode and assess handling.

4.5.2 Repeat 4.5.1 with emergency damper gear down mode.

4.5.3 Repeat 4.5.1 with normal damper gear up mode.

4.5.4 Repeat 4.5.1 with emergency damper gear up mode.

4.6 C_L vs α Checks

4.6.1 At a convenient altitude obtain photographs of the aircraft against the horizon between minimum safe flying speed, (approx. 160 kts. EAS), and 250 kts. EAS such that a curve of C_L vs α can be obtained.

5. DATA

5.1 Photographic records of 4.6.1.

5.2 Pilot's comments.

R.F.T. PREPARED BY:

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