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S/L Armstrong

1) No comment 50

Inter-Departmental Memorandum

Ref: 9663/09/J  
Date: May 28, 1958  
To: S. E. Harper  
From: T. Roberts  
Subject: BRAKE TESTS

Attached herewith is R.F.T. 5055 which covers tests on modified brake control valves and heavier brakes on the Arrow 1.

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FLIGHT TEST

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AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

# REQUISITION FOR FLIGHT TEST

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R.F.T. NO. 5055

SHEET NO. 1 OF 2

DATE: May 21, 1958

AIRCRAFT 25201

ASSIGNMENT NO. E73-386

WORK ORDER NO.

## 1. OBJECT

To assess modified brake control valves and heavier brakes (1" thick discs and thinner brake pads).

## 2. EQUIPMENT

Goodyear brakes - Serial Nos. E-10331  
E-101511  
E-101611  
E-101811

Brake Control Valves (7-1954-281) Serial No. 1013  
1021

## 3. PROCEDURE

Test and assess the brakes as follows:-

- 3.1 Determine brake pressure as a function of rudder pedal force and deflection prior to taxi trials.
- 3.2 Taxi the aircraft at speeds up to 50 kts. Assess smoothness of brake operation and record brake temperatures after prolonged taxiing (e.g. 2 miles).
- 3.3 Accelerate to 100 Kts. and brake the aircraft to a full stop without using the parabrake. Aircraft weight = 60,000 lb. (min).
- 3.4 Accelerate to 120 Kts. and brake the aircraft to a full stop without using the parabrake. Aircraft weight = 60,000 lb. (min).
- 3.5 Land the aircraft at 165 - 175 kts. and bring the aircraft to a complete stop using brakes and parabreaks. Aircraft weight = 55,000 lb. (max).

R.F.T. PREPARED BY:  
B. Jewell

APPROVED BY:

AUTHORIZED BY: 

DATE FOR COMPLETION

PRIORITY

ESTIMATED COMPLETION  
DATE:



AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

# REQUISITION FOR FLIGHT TEST

**UNCLASSIFIED**

R.F.T. NO. 5055

SHEET NO. 2 OF 2

DATE: May 21, 1958

AIRCRAFT 25201

ASSIGNMENT NO. X73-364

WORK ORDER NO.

NOTE:- Items 3.1, 3.2, are required prior to flight. Item 3.3 and Item 3.4 to be programmed at the discretion of the pilot and project designers.

## 4. DATA REQUIRED

- (a) Brake pressure vs rudder pedal deflection and force from static calibration.
- (b) Pilot's assessment of handling qualities.
- (c) Brake pad temperatures before and after each test.
- (d) Maximum wheel rim temperatures (from temperature - sensitive paints).
- (e) Test conditions, e.g. Aircraft weight, speed, runway used, weather conditions, braking distances.

R.F.T. PREPARED BY:

APPROVED BY:

*DA Ridler*

AUTHORIZED BY:

DATE FOR COMPLETION

PRIORITY

ESTIMATED COMPLETION

DATE: