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AVRO AIRCRAFT

Inter-Departmental Memorandum

Ref 8863/09/J
Date December 22, 1958
To Mr. S. E. Harper
From T. Roberts
Subject LANDING GEAR TESTS - ARROW 1

Herewith addendum number 1 to R.F.T. No. 07-5054.

The number of changes from the original issue of the R.F.T. are such that it was considered best to rewrite it completely. This addendum therefore supercedes and cancels the original issue of the subject R.F.T.

The tests are now planned to be performed on aircraft 25205.

/b

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FORM 1749 A

AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

R.F.T. NO. 07-5054 Add. 1

SHEET NO. 1 OF

DATE: December 22, 1958

AIRCRAFT	ASSIGNMENT	WORK ORDER NO.
25205	X74-4009	

LANDING GEAR TESTS - ARROW 1

1. OBJECTIVES

The Stress Dept. desire to achieve the following by means of these tests.

(a) The check their dynamic analysis.

(b) To obtain a loading spectrum for both landing and taxying conditions.

(c) To correlate ground reactions during landing.

2. INSTRUMENTATION

2.1 A total of 34 strain gauges is required, 20 on the port side and 14 on the starboard. Of these, one set of 6 gauges on each side is wired in series and averaged, thus giving 15 measurements required on the port side 9 on the starboard. These 24 quantities are to be recorded by means of an oscillograph (preferably two). The exact location of the strain gauges and any other pertinent information should be obtained from the Stress Office.

2.2 Oscillograph recording of port and starboard oleo position.

2.3 The final stage of the descent and the first part of the ground run should be covered by cameras placed close to the runway such that the following may be determined:

(a) Rate of descent.

(b) Pitch angle at touch-down.

(c) Roll angle at touch-down (of secondary importance).

(d) Ground speed.

2.4 Normal acceleration at the C.G.

2.5 Aircraft weight and C.G. position (Pilot read fuel weight will be satisfactory.)

R.F.T. PREPARED BY:	APPROVED BY:	AUTHORIZED BY:
D.H.M.	R.P.W.	

AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

R.F.T. NO. 07-5054 Add. 1

SHEET NO. 2 OF 2

DATE: December 22, 1958

AIRCRAFT	ASSIGNMENT	WORK ORDER NO.
25205	X74-4009	

3. PROCEDURE

As many instrumented landings as possible should be made. These may be at normal weights and descent rates.

If and when anti-skid is fitted to the subject aircraft, a few landings should be made with it in use.

4. DATA

As listed under 2.0.

R.F.T. PREPARED BY:	APPROVED BY:	AUTHORIZED BY:

FORM