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Inter-Departmental Memorandum

Ref 5185/09/J
Date October 24, 1958
To Mr. S. E. Harper
From T. Roberts
Subject NYLON PARACHUTE TESTS

R.F.T. No. 07-5092, covering tests to assess the deformation characteristics of nylon parachutes after streaming on aircraft 25201 , is attached.

T Roberts

WE/b

T. Roberts
Technical Design Coordinator
FLIGHT TEST

c.c.
Messrs C. Lindow
J. Chamberlin
F. Brame
A. Buley
C. Marshall
H. Malinowski
B. Tennant
D. Scard
D. Woolley
J. Lynch
J. Gale
J. Ames
F. Mitchell
P. Martin
J. Scott
J. Hodge
R. Smallman-Tew
W/C G. Waterman
W/C G. Waterman (2) AVRO T.S.D. RCAF
for transmittal to
S/L K. Owen, C.E.P.E.
Detachment

Central Files

FORM 1749 A

AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

UNCLASSIFIED

R.F.T. NO. 07-5092

SHEET NO. 1 OF

DATE: October 24, 1958

AIRCRAFT 25201	ASSIGNMENT	WORK ORDER NO.

NYLON PARACHUTE TESTS

1. OBJECT

To determine if nylon parachutes are free from the permanent deformations found in dacron parachutes after streaming.

2. EQUIPMENT

2.1 Three nylon parachutes (24 ft. dia.).

2.2 Two movie cameras - one at 64 fps and the other set at 100 fps.

2.3 Dynamic deployment load as per R.F.T. 5034, IDM 9671/01J.

3. PROCEDURE

3.1 Each nylon parachute is to be streamed twice. The maximum airspeed at which the brake parachute may be selected is 185 knots.

3.2 In each case the following measurements are required:-

3.2.1 Wind speed and direction.

3.2.2 Aircraft velocity vs time.

3.2.3 Dynamic deployment load vs time.

3.3 Complete two camera movie coverage of each streaming sequence is required.

3.4 Each suspension line is to be measured before streaming, immediately after streaming, and at twenty-four hours intervals thereafter until no further shrinkage can be detected.

3.5 All marks and damage are to be recorded.

3.6 Pilot comments on parachute performance are required.

4. DATA

4.1 Results of 3.2, 3.3, 3.4, 3.5, 3.6, are required.

R.F.T. PREPARED BY: N B Tennant	APPROVED BY:	AUTHORIZED BY: