



Inter-Departmental Memorandum

Ref 3287/04/J
Date August 29, 1958
To Mr. S. E. Harper
From T. Roberts
Subject AIRCRAFT 25202 ENGINE CALIBRATION TESTS

R.F.T. No. 07-5087, covering calibration of the 'performance' engines in aircraft 25202 during ground engine runs, is attached.

WE/b

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Detachment

Central Files

AVRO AIRCRAFT LIMITED

MALTON, ONTARIO

REQUISITION FOR FLIGHT TEST

R.F.T. NO. 07-5087

SHEET NO. 1 OF 2

DATE: August 29, 1958

AIRCRAFT 25202

ASSIGNMENT

WORK ORDER NO.

J75-P5 ENGINE CALIBRATION IN AIRCRAFT 25202

1. OBJECT

- 1.1 To calibrate the 'performance' engines in Aircraft 25202 during ground engine runs.
- 1.2 To obtain voltage dropping resistor values for the Emergency Alternator system.

2. INSTRUMENTATION

- 2.1 Engine ground run trailer, with provision for recording the following:-
 - 2.1.1 Barometric pressure
 - 2.1.2 Ambient air temperature
 - 2.1.3 Compressor face pressure - P_{t2} (L.H. and R.H.)
 - 2.1.4 Turbine exit pressure - P_{t7} (L.H. and R.H.)
 - 2.1.5 H.P. rotor RPM - N_2 (L.H. and R.H.)
 - 2.1.6 L.P. rotor RPM - N_1 (L.H. and R.H.)
 - 2.1.7 Engine fuel flow (L.H. and R.H.)
 - 2.1.8 Fuel temperature at F.C.U. (L.H. and R.H.)
 - 2.1.9 Burner pressure (L.H. and R.H.)
 - 2.1.10 Turbine outlet temperature - T_{t7} (L.H. and R.H.)
- 2.2 Balance box for Emergency Alternator system tests.

3. PROCEDURE

- 3.1 Engine calibrations should be performed as detailed in 'Phase 6' of the Engine Test and Installation Procedure issued as an attachment to R.T. 08-742 Addendum 9. Three calibration test runs per engine should be carried out, with the maximum practical difference in ambient temperature between runs.

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ASSIGNMENT

WORK ORDER NO.

3.2 Obtain proper voltage dropping resistor values in the Emergency Alternator circuitry to balance the voltages on the Emergency A.C. Bus within tolerances, with all Emergency A.C. loads connected during Emergency Alternator operation.

4. DATA

4.1 Calibration results from all three test runs.

4.2 Voltage dropping resistor values.

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