

2. OVERSEAS DUTY

During the year the Chief Aeronautical Engineer (Mr. E. F. Carpenter) attended as a New Zealand delegate two important International Conferences, viz. :—

- (a) The Commonwealth Advisory Aeronautical Research Council held in Melbourne, at which were represented scientists from the United Kingdom, Canada, South Africa, Australia, and New Zealand.
- (b) The third session of the “ Air ” and “ Ops ” Divisions of ICAO held in Montreal, and at which fifteen member States were represented. (This item is referred to in further detail under Section I, Subsection (5), of this report.)

Whilst in Australia the Chief Aeronautical Engineer arranged and supervised on behalf of the New Zealand Government flight performance tests carried out on Tasman S. 25 aircraft by R.A.A.F. at Point Cook.

Mr. D. D. Anderson, Surveyor in charge of the Auckland district, was seconded for a period of six months to the United Kingdom for the purpose of gaining experience with the work of the Air Registration Board, and also with the construction of the new Solent aircraft at Short and Harland, Ltd., Belfast.

Mr. J. B. Flynn, Examining Surveyor, visited Australia to confer with the Department of Civil Aviation, Melbourne, on matters associated with defect investigations and also standards and practices for the examination and licensing of aircraft maintenance engineers.

Mr. L. F. Kenna, Aeronautical Engineer, visited Australia for the purpose of witnessing and evaluating the results of flight tests carried out on Sandringham S. 25 aircraft at Point Cook, and also conferring with members of the Australian Civil Aviation Administration on matters relating to performance-testing of aircraft.

3. LOCAL DISCUSSIONS AND CONFERENCES

During the year meetings in Wellington were initiated by the Division—

- (a) With representatives of the New Zealand Aircraft Workers' Union for the purpose of drawing up rules for the conduct of Aircraft Maintenance Engineers' Examinations.
- (b) With delegates from various parts of New Zealand representing gliding interests and for the purpose of forwarding the work of the New Zealand Gliding Association.
- (c) With representatives from New Zealand National Airways Corporation for the purpose of drafting the Corporation's Maintenance Manual, and facilitating the issue of an Airline Maintenance Rating.
- (d) With divisional staff, including district office staff, for the purpose of co-ordinating the work of the Division and overcoming practical difficulties experienced in the field.

4. SUMMARY OF THE WORK OF THE DIVISION

(a) Engineering Section

- (i) Technical analysis and approval of 148 Certificates of Airworthiness.
- (ii) Investigation of 142 aircraft modifications, and 12 major repair schemes.
- (iii) Miscellaneous detail design projects in connection with the rework and conversion of Douglas D.C. 3, Lockheed Lodestar 18-50, Short Sunderland, Cessna, D.H. 82, and Gemini aircraft, and Pratt and Whitney engines.
- (iv) Conduct of a series of flight performance tests on Short S. 25 aircraft and Gemini aircraft.
- (v) Performance analysis of Short S. 25, Short Solent, Constellation, Douglas D.C. 6, and D.C. 4 aircraft.