

## **1989.137 MS0011**

### **Collection of aviation material deposited by Mrs GA Orrell**

Items formerly the property of Mr Joseph Orrell OBE pilot

#### **1. LOG BOOKS**

- 1.1 1 x RAF Pilot's flying Log Book, entries dated 17.3.1926 – 23.12.1930. (aircraft types Include D.H. Moth, Avro Lynx, Siskin, Bristol Fighter, etc).
- 1.2 1 x RAF Pilot's flying Log Book, 8.1.1931 – 12.3.1931. (aircraft types include DH Moth, Avro Lynx, Siskin, Wapiti, etc.
- 1.3 1 x Civil Pilot's Flying Log Book, service with Berkshire Aviation Tours Ltd., Manchester (Barton); entries dated 20.3.1931 – 31.3.33. (aircraft types include Avro 504K and DH Moth).
- 1.4 1 x Civil Pilot's Flying Log Book, service with Midland and Scottish Air Ferries Ltd. Renfrew aerodrome, Scotland; entries dated 31.3.1933 – 22.8.1934. (aircraft types include DH Fox, DH Dragon, Avro Ten, etc.).
- 1.5 1 x Civil Pilot's Flying Log Book, service with Midland and Scottish Air Ferries Ltd., AV Roe Co. Ltd. and Imperial Airways; entries dated 23.8.1934 – 13.4.1939. (aircraft types include Airspeed Ferry, Fox, Moth, DH 86, HP 42, etc.)
- 1.6 1 x Civil Pilot's Flying Log Book, service with Imperial Airways; entries dated 14.4.1939 – 29.9.41 (aircraft types include AW 27, Avro Anson, Spitfire, Mohawk, Lockheed 14, etc)
- 1.7 1 x Civil Pilot's Flying Log Book, service with AV Roe and Co Ltd., Woodford. Entries dated 29.9.1941 – 20.8.1943 (aircraft types include Lockheed 14, Avro Anson, Avro Lancaster)
- 1.8 1 x Civil Pilot's Flying Log Book, service with AV roe and Co Ltd, Woodford. Entries dated 21.8.1943 – 9.9.1945 (aircraft types include Avro Anson, York, Lincoln, Tudor etc.)
- 1.9 1 x RAF Pilot's Flying Log Book test pilot's course, Entries dated 13.3.1944 – 28.8.1944 (aircraft types include Harvard, Hurricane, Spitfire, Oxford, Mitchell, Lancaster)
- 1.10 1 x Civil Pilot's Flying Log Book, service with AV Roe & Co Woodford. Entries dated 9.9.1945 – 17.1.50. (aircraft types include Avro Tudor, Lincoln, Shackleton, Athena).
- 1.11 1 x Civil Pilot's Flying Log Book, service with AV Roe & Co Woodford. Entries dated 21.1.1950 - 30.8.1958. (aircraft types include Avro Shackleton, Ashton, Lancaster, Vickers Vulcan and Valient, etc.)

## 2. Licences

- 2.1 1 x British pilot's certificate and licence, granted 21.12.1932, valid to 11.6.1936.
- 2.2 1 x British aircraft ground engineer's licence, granted 29.7.1933 valid to 28.7.1934, for D.H. 83, 84, 86, 89, Avro 652 and H.P.42 aircraft types.
- 2.3 1 x British aircraft navigator's certificate and licence, granted 23.3.1936, valid to 30.6.50.
- 2.4 1 x British pilot's certificate and licence, granted 23.4.1946, valid to 30.9.50.
- 2.5 1 x British commercial Pilot's licence, granted 12.12.50 valid to 11.6.51, for landplanes (stated types: Tudor 1 – V and Avro XIX).
- 2.6 1 x British airline transport Pilot's licence, granted 21.12.1953, valid to 16.6.1954, for landplanes (stated types: Tudor 1 – V and Avro XIX).
- 2.7 1 x British private pilot's licence, granted 24.2.1959, valid to 18.2.1960, for landplanes.

## 3. Files of Photographs

- 3.1 1 x b/w photo (9 x 6.3cm) pilot and ground crew in front of Berkshire Aviation Tours Ltd. Avro 504, c1930/1
- 3.2 1 x b/w photo (9.1 x 6.1cm), Imperial Airways H.P.42 at Croydon (?) airport, 1930s.
- 3.3 1 x b/w photo (10 x 7.6cm); handwritten text on reverse side: "AW Argosy G-EBLF Cobhams & Barnards Air Circus Pleasure flying in Balgare field by Strathtyrum St Andrews AA Duncan," 1930s.
- 3.4 1 x b/w (13.8 x 9cm), Imperial Airways D.H. 91 Albatross undergoing servicing, 1930s.
- 3.5 1 x b/w photo (25.3 x 20.6cm) 6 person group picture at Douglas Aircraft Co. of Canada Ltd. premises, Malton, Ontario, Canada, 1972. (see item 10.50 for details).

## 4. Early Life File

- 4.1 1 x school report for Mr Orrell, 10.1.1918.
- 4.2 1 x job reference for Mr Orrell from C&H Crichton Ltd of Liverpool. 18.3.1919.
- 4.3 1 x driver's licence for Mr Orrell, 1925.
- 4.4 1 x certificate of membership to "The Grand Lodge of England" Masonic Group, 1929.
- 4.5 1 x RAF postal envelope containing:
  - a) 1 x notice paper for 4 years' reserve service, 24.2.1931 (RAF form 992).
  - b) 1 x form, "Statement on discharge of an airman's qualifications and employment" 30.3.1931 (RAF form 856).
  - c) 1 x discharge from service certificate, 1.4.1931 (RAF form 280).
  - d) 1 x covering letter for b and c, 31.3.1931 (RAF form 1366)
  - e) 1 x statement of money owing to Mr Orrell from RAF, 21.11.1933. (RAF form 451) (all for JH Orrell).

- 4.6 1 x handwritten letter to Mr Orrell from Jimmie James, dated 26.8.1949 (2 sheets) with typed reply letter dated 14.9.1949 from Mr Orrell (2 sheets); Mr Orrell's early aviation career.
- 4.7 1 x typescript biography of JH Orrell, dated 30.1.1950 (2 sheets).
- 4.8 1 handwritten personal letter to Mr Orrell from Marjorie Bullen, concerning family relationships dated 19.9.1951. (2 sheets).
- 4.9 1 x handwritten personal letter to Mr Orrell from 'Jo', (Marjorie Bullen) dated 8.1.1952 (3 sheets).
- 4.10 35 x handwritten sheets, detailed biography of JH Orrell, c1950s.
- 4.11 1 x typescript short biography of JH Orrell with handwritten additions, c1956.
- 4.12 1 x magazine cutting, "Is your name Orrell?" (Lancashire Life, Jan. 1972) and 4 photocopies.

#### 5. Pre-war Midland & Scottish Air Ferries, etc file

- 5.1 1 x newspaper cutting (no date/source, prob. c1930s); mercy flight undertaken by Mr Orrell to transport a patient from Islay to Glasgow.
- 5.2 1 x newspaper cutting, "Air relief mission that failed" (no source, 3.3.1933); attempt to supply food to snowbound Staffordshire village, Flash Bar.
- 5.3 1 x photocopy of magazine article "Air Transport Enterprise in Scotland", (Airways and Airports, Dec. 1933) (2 sheets); Midland and Scottish Air Ferries Ltd's operations.
- 5.4 1 x newspaper cutting "Lord Stanley's trip over the lights" (West Lancashire Evening Gazette, 17.9.1934); photograph with caption of Mr Orrell being presented to Lord Stanley following flight over Blackpool Illuminations.
- 5.5 1 x photocopy of captioned photograph, showing Midland and Scottish Air Ferries aircraft. (no date/source).
- 5.6 1 x magazine cutting, "Boy wing walker" (no date/source, prob. c1950s); article on 1930s "air circus" flying, including photo of Mr Orrell.
- 5.7 1 x typed letter to Mr Orrell from David JS Thom, dated 26.3.1979, inquiring about details of Midland Scottish Air Ferries air ambulance services for a proposed book.
- 5.8 1 x typed letter to Mr Orrell from David JS Thom, dated 23.4.1979, thanking Mr Orrell for information given.
- 5.9 1 x envelope containing the following:
  - a) 1 x newspaper cutting, "Hamlet's desperate flight" (no date/source, c1933); Mr Orrell's attempted flight to supply Flash Bar by air.
  - b) 1 x job reference for Mr Orrell from Northern Air Transport Ltd. (on headed notepaper), 28.4.1934.

- c) 1 x newspaper cutting, "Days of circus stunts" (The Journal, c1980); Series article on Barton Airfield with numerous references to Mr Orrell.
- d) 1 x newspaper cutting, "Crash landing!" (The Journal, 6.3.1980) subject as (c).

## 6. Imperial Airways File

- 6.1 1 x handwritten letter from Mr Orrell to BBC Radio (undated) relating some details of Imperial airway's operations in 1934-42 (3 sheets).
- 6.2 1 x handwritten account of Mr Orrell's experiences whilst serving with Imperial Airways (undated, c1980s; 7 sheets).
- 6.3 3pp from handwritten account of MrOrrell's experiences with Imperial Airways.
- 6.4 Further pages from handwritten account of Mr Orrell's experiences with Imperial Airways (9 sheets).
- 6.5 1 x "Provisional Certificate of Proficiency in Radiotelephony and Licence Granted by the Postmaster General" for Mr Orrell dated 19.6.1935.
- 6.6 1 x Civil Air Navigator's Licence Examining board report for Mr Orrell, dated Jan. 1936.
- 6.7 1 x "Imperial Airways Map of the Empire Air Mail Scheme and other Commonwealth Air Routes in the Eastern Hemisphere," 1936.
- 6.8 1 x Nazi propaganda leaflet, c1936.
- 6.9 24 x Imperial Airways voyage reports filed by Mr Orrell:
- |   |                      |               |             |
|---|----------------------|---------------|-------------|
| A) Delivery flight  | Cairo-Khartoum       | 13-15.3.1937  | (1 sheet).  |
| B) Delivery flight with passengers                              | Khartoum-Cairo       | 14.3.1937     | (2 sheets). |
| C) IW. 566  | Karachi-Alexandria   | 21-23.7.1937  | (2 sheets). |
| D) Special flight   | Cairo-Khartoum-Cairo | 30.7-3.8.1937 | (1 sheet).  |
| E) IE.572   | Alexandria-Karachi   | 7-9.8.1937    | (2 sheets). |
| F) IW.572   | Karachi-Alexandria   | 11-13.8.1937  | (1 sheet)   |
| G) R/F  | Alexandria-Cairo     | 16.8.1937     | (1 sheet)   |
| H) IE.578   | Alexandria- Karachi  | 28-30.8.1937  | (2 sheets)  |
| I) IW.578   | Karachi- Alexandria  | 1-3.9.1937    | (1 sheet)   |
| J) IE.583   | Alexandria-Karachi   | 15-17.9.1937  | (1 sheet)   |
| K) IW.583   | Karachi- Alexandria  | 18-20.9.1937  | (1 sheet)   |
| L) IE.587   | Alexandria-Karachi   | 28-30.9.1937  | (2 sheets)  |
| M) Also: Pilot's report on meteorology received for the flight  |                      |               | (2 sheets)  |
| N) Iraq Area Manager's comments on same                         |                      |               | (1 sheet)   |
| O) Response from Baghdad Airport Meteorological Service on same |                      |               | (1 sheet)   |
| P) IW.587   | Karachi- Alexandria  | 2-5.10.1937   | (2 sheets)  |
| Q) IE.590   | Alexandria-Karachi   | 9-11.10.1937  | (2 sheets)  |
| R) IW.591   | Karachi- Alexandria  | 16-18.10.1937 | (1 sheet)   |
| S) IE.602   | Alexandria-Karachi   | 21-23.11.1937 | (2 sheets)  |
| T) IW.603A  | Karachi- Alexandria  | 27-29.11.1937 | (1 sheet)   |
| U) IE.614   | Alexandria-Karachi   | 2-4.1 1938    | (1 sheet)   |
| V) IW.615   | Karachi- Alexandria  | 8-10.1.1938   | (1 sheet)   |
| W) IE.624   | Alexandria-Karachi   | 6-8.2.1938    | (1 sheet)   |

X) IW.625	Karachi- Alexandria	12-15.2.1938	(2 sheets)
Y) ABA. /5	Alexandria-Basrah-Alexandria	30.3.-1.4.1938	(1 sheet)
Z) ABA. /8	Alexandria-Basrah-Alexandria	18-22.4.1938	(1 sheet)
AA) ABA. /10	Alexandria-Basrah-Alexandria	3-6.5.1938	(1 sheet)

- 6.10 1 x Royal Air Force Reserve passing out report for Mr Orrell, 29.9.1938.
- 6.11 1 x newspaper cutting, brief review of book The Grand Days of Travel (inter-war air travel). (Sunday Express, 30.9.1979).
- 6.12 1 x newspaper cutting, "Sharjah and the Forgotten Fort" (Observer, 31.8.1986); series article on the 1930's Imperial airways route to Australia.
- 6.13 1x hand written account of Mr Orrell's wartime experiences as a civilian pilot ( undated ; 5 sheets).
- 7 " War-time ball-bearing run" file.
- 7.1 1x BOAC memorandum. " Scandinavian Operations : Rates of Pay. " 22-8-1941.
- 7.2 1x report from Mr Orrell, "Report on Lockheed '414' OIL TROUBLE", 29-8-1941.
- 7.3 1x meteorological report, "Weather and conditions 23<sup>rd</sup> – 27<sup>th</sup> Sept. 1941" (2 sheets).
- 7.4 1x report Mr Orrell, " Report on Scandinavian Route, Personnel and Equipment," 23-9-1941 (2 sheets).
- 7.5 1x report by Mr Orrell, "Engineering Requirements, Stockholm," 11-11-1941. (2 sheets)
- 7.6 1x report by Mr Orrell, "Winter Clothing, Scandinavian Crews," 11-11-1941.
- 7.7 1x report by Mr Orrell, "Lorenz Gear, Scandinavian Aircraft," 11-11-1941.
- 7.8 1x report from Mr Orrell, " Oil trouble – G-AGDC," 12-11-1941.
- 7.9 1x report by Mr Orrell, "" Scandinavian Operations," 15-11-1941
- 7.10 1x report from Mr Orrell, " Remote Compass G-AGDC2 (updated, prob. C15 Nov. 1941).
- 7.11 1x BOAC memorandum, fitting of remote compass to G-AGDC, 15-11-1941. (Reply to 7.10)
- 7.12 1x BOAC memorandum, inquiring of Mr Orrell the reason for his non-departure with aircraft, 26-11-1941.
- 7.13 1x report from Mr Orrell re. Departure of aircraft G-AGDC, 27-11-1941 (possibly connected to subject in items 7.12 and 7.17)
- 7.14 1x BOAC memorandum, " Remote Reading Compass for G\_AGDC," 28-11-1941. (see 7.10 and 7.11).
- 7.15 1x BOAC memorandum, response to Mr Orrell's 15-11-1941 report, 29-11-1941. ( see 7.9).

- 7.16 1x report from Mr Orrell re: Crew for Scandinavian Route, 29-11-1941.
- 7.17 1x report from Mr Orrell, response to inquiry in item 7.12, 1-12-1941
- 7.18 1x BOAC memorandum, follow-up to item 7.15, 12-12-1941
- 7.19 1x report from Mr Orrell " G-AGDC at 'SO' 1/12/41-19/12/41" (refers to equipment problems on the aircraft), 23-12-1941. (2 sheets).
- 7.20 1x BOAC memorandum, "Aircraft G-AGDC", 13-12-1941.
- 7.21 1x BOAC memorandum, addendum to item 7.20, 15-12-1941. ( Items 7.20 and 7.21 from BOAC 's Swedish Office re: technical problems with aircraft G-AGDC).
- 7.22 1x report from Mr Orrell "G-AGDC Aircraft Delay – Whitchurch 10-1-42 ". 12-1-1942
- 7.23 1x BOAC memorandum, "Oil Trouble on Lockheed 414 aircraft. " 22-1-1942.
- 7.24 1x report from Mr Orrell, "Engine Trouble G-AGDC – Loch Lomond, " 11-2-1943. (Connected to 7.22)
- 7.25 12x BOAC Voyage reports for Scandinavian run filed by Mr Orrell:
- |           |               |            |
|-----------|---------------|------------|
| A) BE, 26 | 16-17.9.1941  |            |
| B) BW, 26 | 20.9.1941     |            |
| C) BE. 29 | 28-29.9.1941  |            |
| D) BW. 29 | 29-30.9.1941  |            |
| E) BE. 33 | 17-18.10.1941 |            |
| F) BW, 33 | 7.11.1941     | (4 sheets) |
| G) BE. 46 | 1.12.1941     |            |
| H) BW. 46 | 19.12.1941    |            |
| I) BE. 59 | 27.1.1942     |            |
| J) BW. 59 | 31.1.1942     |            |
| K) BE. 61 | 6.2.1942      |            |
| L) BW. 61 | 9.2.1941      | (2sheets)  |
- (BE. = Britain to Sweden ; BW. = Sweden to Britain)
- 7.26 1x newspaper cutting, "Ferrying the tools of death" (Manchester Evening News, 11.5.1976 ). Mr Orrell's memories of the wartime Scandinavian run.

## 8 "War-time Testing " file

- 8.1 1x photocopy " Section 19. Flight Testing and Adjusting Flying trim." (no source/date; refers to Avro Lancaster).
- 8.2 1x report by Mr Orrell of his experience of the Empire Test Pilot's School (undated c1940s ; 5 sheets)
- 8.3 1 x typescript address by Mr Orrell, "Preliminary Prototype Testing" ( undated, c1940s?; 8 sheets)

- 8.4 1x typescript article on aircraft testing at Woodford by Mr Orrell ( undated).
- 8.5 1x handwritten history of the Avro aircraft test flown by Mr Orrell, with detailed list of all the Lancasters he tested (undated: 10 sheets).
- 8.6 2x typescripts, " Flight Testing the Lancaster, 1942-1945" by J H Orrell ( undated, c1980 ? ; 7 sheets each).
- 8.7 1x photocopied magazine article, "Lancasters by the hundred – a test pilot's view. " (Royal Air Force Yearbook , 1986); Mr Orrell's memories of his wartime aircraft testing at Woodford, (3 sheets)

## 9 "Avro Canada" file

- 9.1 1x letter from Mr Orrell to R H Dobson; initial work on the Jetliner test programme, 19.7.1949 ( 2 sheets).
- 9.2 1x copy letter from Mr Orrell to Mr W S Farren of AV Roe and Co. Manchester; subject as 9.1, 26.1949 ( 2 sheets).
- 9.3 1x Avro Canada memorandum with attached memo; personnel for the Jetliner programme, 27.7.1949 ( 2 sheets)
- 9.4 Personal letter from R H Dobson of AV Roe and Co. Manchester to Mr Orrell, 2.8.1949.
- 9.5 1x newspaper cutting, "See Airlines of the World Beating Path to Avro" (The Telegram 11.8.1949); article with photographs on the jetliner's maiden flight.
- 9.6 1x newspaper cutting, "Fine to handle – at 12,000 feet" ( no-date/source, 11.8.1949); artist's impression and brief details of the Avro Canada C102.
- 9.7 1x copy letter from Mr Orrell to R H Dobson; initial tests and problems with the Jetliner, 12.8.1949 ( 2 sheets).
- 9.8 1x report from Mr Orrell. " C.102 First Flight Impressions ", 16.8.1949 ( 2 sheets)
- 9.9 letter from RH Dobson of AV Roe & Co., Manchester to Mr Orrell, being reply to Mr Orrell's letter of 12.8.1949 ( see 9.7) re problems with the Jetliner's tyres, 16.8.1949.
- 9.10 1 x newspaper cutting, in "Undercarriage Stuck, Jetliner Makes Nosewheel Landing", (no date/source, prob. Canadian newspaper, c16th august 1949); article with photographs on the Jetliner's undercarriage failure.
- 9.11 1 x newspaper, "Wheels Lock in Air, Jetliner Crash-lands Safely" (Toronto Daily Star 16.8.1949); article with photographs, subject as item 9.10.
- 9.12A 1 x letter from Mr Orrell to DW Saunders, Air Regulations Board District Inspector; Jetliner's wheels-up landing, with attached report of the incident, 17.8.1949 (3 sheets).
- 9.12B 1 x incident report re Jetliner's undercarriage failure, 16.8.1949 (2 sheets).

- 9.12C 1 x chart (Photostat), "Starboard U/C Leg Load Deflection" for C102, 17.8.1949.
- 9.12D 1 x line diagram (Photostat), "Main U/C Uplock and Cam Guide C-102" (undated, prob. 17.8.1949).
- 9.13 1 x typescript speech delivered by Mr Orrell to Avro Canada Staff following the Jetliner's undercarriage failure incident, 17.8.1949 (2sheets).
- 9.14 1 x typed draft for article, "Canadian Jetliner Crash Landing" (prob. author Mr Orrell; undated; 8 sheets).
- 9.15 2 x copy letters from WN Deisher (Avro Canada) to RH Dobson (Avro, Manchester); Mr Orrell's reports on the first Jetliner flights, 18.8.1949.
- 9.16 1 x report by Mr Orrell, "C-100 First Impressions of Cockpit Layout" (undated).
- 9.17 1 x handwritten draft for report by Mr Orrell "C 102 General Resumée" (undated; 2 sheets).
- 9.18 1 x copy letter from Mr Orrell to WS Farren (Avro, Manchester), details of 2<sup>nd</sup> Jetliner flight, with accompanying copy of letter on same subject sent to RH Dobson (Avro, Manchester), 18.8.1949 (3 sheets).
- 9.19 1 x letter from Mr Orrell to Eric [?] early testing of the jetliner, 19.8.1949 (2 sheets).
- 9.20 1 x Avro Canada report, "Inspection Report on Undercarriage Failure on Second Flight of C102 Aircraft", 19.8.1949 (7 sheets).
- 9.21 1 x Avro Canada report, "Modifications to Second [Jetliner] prototype", 25.8.1949 (10 sheets).
- 9.22 1 x Avro Canada report, "Investigation of Reason for C102 Undercarriage Failure", 25.8.1949 (4 sheets).
- 9.23 1 x Avro Canada report, "Report on C 102 Hydraulics system Loss of Fluid During Flight" 25.8.1949.
- 9.24 Letter from RH Dobson of AV Roe & Co., Manchester to Mr Orrell, re the Jetliner's wheels-up landing, 30.8.1949.
- 9.25 1 x letter from W James of AV Roe & Co., Manchester to Mr Orrell re Jetliner's wheels-up landing and other company matters, 30.8.1949 (on headed notepaper; 2 sheets).
- 9.26 1 x journal Avro News, no. 16, (September 1949); pp 3-5 have article with photographs of the Jetliner.
- 9.27 1 x letter from Mr Orrell to Mr WS Farren (Avro, Manchester), Jetliner second flight and undercarriage failure, 2.9.1949 (2sheets).
- 9.28 1 x Avro Canada report,"C.102 Flight Test Schedule", 9.9.1949 (3 sheets).
- 9.29 1 x report by Mr Orrell "C.102 Very Grave Situation" (re undercarriage switches), 29.9.1949.

- 9.30 1 x Avro Canada memorandum, visitors to factory for C.102 demonstration, 21.9.1949.
- 9.31 1 x letter from Avro Canada to Canadian Department of Transport, fuel levels in outer tanks during Jetliner flight tests, 26.9.1949
- 9.32 3 x Avro Canada reports, " C.102 Flight Characteristics and Scheduling", 26.9.1949 (3 sheets each).
- 9.33 2 x letters from Mr Orrell to WS Farren (Avro, Manchester), details of jetliner testing, 27.9.1949. (3 sheets each).
- 9.34 As item 9.33, sent to RH Dobson (Avro, Manchester), 28.9.1949. (3 sheets each).
- 9.35 1 x copy letter from MA Pessando (Avro, Canada) to other members of staff, Jetliner flight test programme, 30.9.1949 (2 sheets).
- 9.36 1 x Avro Canada memorandum, "Program for Press Party – Monday October 3<sup>rd</sup>, 1949, 30.9.1949 (2 sheets).
- 9.37 2 x journals, Aircraft and Airport, vol.11, no.10 (October 1949); pp 7-13 have detailed article with photographs on the Jetliner written by Mr Orrell.
- 9.38 13 x flight test briefing forms for the C-102;

<u>Flight No.</u>	<u>Date</u>	<u>Purpose of Test</u>
1	10.8.1949	Initial flight
2	16.8.1949	Aircraft familiarisation
3	20.9.1949	Checkflight after repairs
4	20.9.1949	Rudder characteristics and general handling
6	27.9.1949	Calibration of air speed system and thermometer
7	30.9.1949	Investigation of manual rudder
8	4.10.1949	Public demonstration
9	18.10.1949	Asymmetrical flap flight/flap drag/relighting in the air/noise level (total 5 sheets)
10	18.10.1949	Description as 9 (1 sheet)
13	24.10.1949	Longitudinal stability (4 sheets)
15	26.10.1949	Longitudinal stability and forward cg. (4 sheets)
16	27.10.1949	Position error ( 2 sheets)

- 9.39 12x flight defect report for the C-102:

<u>Flight No.</u>	<u>Date</u>
1	10.8.1949
2	16.8.1949
3	20.9.1949
4	20.9.1949
5	26.9.1949
6	30.9.1949
7	1.10.1949

8	4.10.1949
9	18.10.1049
10	18.10.1949
11	19.10.1949
13	24.10.1949
12	

- 9.40 1x Avro Canada Memorandum, "Program for Official Flight. Tuesday October 4<sup>th</sup>, 1949", (undated : 2 sheets)
- 9.41 1x typescript biography of personnel involved with Jetliner testing (J H Orrell, D H Rogers, A W Baker: undated; 3 sheets).
- 9.42 1 printed technical description of the Jetliner (undated; 16 sheets)
- 9.43 1x Avro Canada Memorandum, "Ground Battery Indicator Light. First Prototype Only", 4.10.1949
- 9.44 1x newspaper cutting, "Our Jets Challenge the World" (The Star Weekly, 1.10.1949); article with photograph on current Avro Canada projects, especial y concentrating on the Jetliner.
- 9.45 1x journal, The Standard, 15.10.1949; pp 2-6 have article with photographs on the Jetliner programme.
- 9.46 1x letter from Mr Orrell to all Avro Canada personnel, extending personal thanks before his return to England, date 27.10.1949 (on Avro Canada notepaper).
- 9.47 13x test reports for the C-102:

<u>Flight No.</u>	<u>Date</u>
71	19.5.1950 (sheets)
Taxi tests prior to Flight 72	1.6.1950
72	1.6.1950
74/75	2 and 4.6.1950
78	6.6.1950
79/80	6.6.1950
81	6.6.1950
86	7.6.1950 (2 copies)
87	8.6.1950
89A	9.6.1950 (2sheets)
90	12.6.1950
91	12.6.1950 (3sheets)

- 9.48 1x typescript history (Photostat) of the Jetliner by S D Benner, 1970 (10sheets).
- 9.49 1x membership form (unused) for the Canadian Aviation Historical Society (undated)
- 9.50 1x broadsheet, Flypast (Canadian Aviation Historical Society, Toronto and District Chapter, newsletter), Vol. 5, No. 7 (September 1970)

- 9.51 1x journal, Dacan Airview News (Douglas Aircraft Company, Canada Ltd publication), Vol.6 No. 10 (October 1972) ; includes article on the Jetliner and the test crew reunion (attended by Mr Orrell) with photographs.)
- 9.52 1x typed transcript of taped message sent by Mr Orrell, giving details of the Jetliner's testing (January 1978; 5 sheets).

## 10 Post War File

- 10.1 1x newspaper cutting, "Jet Tudor 8 Takes Air – 'like a bomb' ", (no date /source, probably Manchester newspaper c1948: maiden flight of the aircraft by Mr Orrell.
- 10.2 1x newspaper cutting, " Perfect take-off by all-jet Tudor" (no date/source, c1950s; Mr Orrell's test flight of the Tudor 8 prototype jet airliner.
- 10.3 1x letter from the President of the Society of British Aircraft Constructors to Mr Orrell, 9.9.1952; thanking him for his flying display at the Farnborough Show (on headed notepaper).
- 19.4 4pp from journal, "Avro aircraft through the years", (no date/source); subject is the Avro Anson, with photograph Mr Orrell.
- 10.5 8pp from Hawker Siddeley Review ( March 1953); includes illustrated article on post-1945 Hawker Siddeley group aircraft, some noted as being first flown by Mr Orrell.
- 10.6 1x report by Mr Orrell for Avro (Woodford), "First Impressions on a Brief First Flight", (Avro Vulcan B. Mk 1 first prototype), 5.8.1953 (3 sheets).
- 10.7 1x personal letter from Thos. Sopwith (?) to Mr Orrell, 5.7.1954.
- 10.8 1x personal letter from Thos. Sopwith (?) to Mr Orrell, 7.7.1956.
- 10.9 1x personal letter from Phyllis Sopwith to Mr Orrell, 25.7.19?
- 10.10 1x personal letter from Thos. Sopwith (?) to Mr Orrell, 3.8.19?
- 10.11 1x personal letter from Thos. Sopwith (?) to Mr Orrell, 14.8.19?
- 10.12. 1x personal letter from Thos. Sopwith (?) to Mr Orrell, 14.9.19?
- 10.13 1x personal letter from Thos. Sopwith's agent to Mr Orrell, 29.1.1988; thanking him for 100<sup>th</sup> birthday greetings.
- 10.14 1x Avro (Woodford ) report, " Avro type 504K – E3404. Loading [ie wing area to mass ratio] for Flights at Woodford,Cheshire", 17.8.1955.
- 10.15 1x newspaper cutting, article with photograph on rebuilt Avro 504K flown at Woodford by Mr Orrell (Manchester Guardian, 20.8.1955).

- 1016 1x letter from E Mather (Chief Inspector, Avro, Woodford) to the Ministry of Transport and Civil Aviation, 22.8.1955; inspection certificate for Avro 504K E3404, with copy of certificate (2 Sheets, both Avro headed notepaper).
- 10.17 1x letter from the Shuttleworth Trust to Mr Orrell, 23.8.1955; enquiring if he could fly their Avro 504K at the Kenley Airshow (on headed notepaper).
- 1018 1x newspaper cutting, “ ‘ Bader Plane ‘ was made at Woodford works” (no date/source, c1956; presentation by Mr Orrell of model used in film” Reach for the Sky” to Stockport cinema.
- 10.19 1 x letter from GDS Garrett (Hawker Siddeley Group Ltd.) to Mr Orrell 8.6.1956; request for a personal list of outstanding aircraft for inclusion in journal article (on headed notepaper).
- 10.20 1 x letter from Mr Orrell to Mr Garrett, 13.6.1956; response to letter of 8.6.1956 (item 10.19).
- 10.21 List of chosen aircraft types and comments (2 sheets); accompanying 10.20.
- 10.22 1 x letter from DGS Garrett to Mr Orrell, 19.6.1956; thanks for letter and list of 13.6.1956 (items 10.20 and 10.21).
- 10.23 1 x letter from the Prime Minister’s Office to Mr Orrell, 25.4.1956; intention to award OBE.
- 10.24 1 x newspaper cutting, “Birthday honours OBE. Heard of award in Malta” (Times of Malta, 4.6.1956; Mr Orrell heard of the news of his award whilst on the island.
- 10.25 1 x newspaper cutting, list of Honours List awards to Cheshire people including Mr Orrell (no date/source; probably c April 1956). Letters of congratulation to Mr Orrell upon being awarded the OBE and replies from Mr Orrell to same:
- 10.26 From CJ Wood, Hawker Siddeley Group (Australia), 11.6.1956 (on headed notepaper).
- 10.27 From Ian Hamar, Dowty Ltd., (Canada), 11.6.1956 (on headed notepaper).
- 10.28 From Maurice [?], 19.6.1956.
- 10.29 Reply letter from Mr Orrell to Ian Hamar, 27.6.1956 (see 10.27).
- 10.30 Reply letter from Mr Orrell to CJ Wood 27.6.1956 (see 10.26).
- 10.31 From Armstrong Siddeley Motors Ltd., 6.7.1956 (on headed notepaper).
- 10.32 1 x letter from Central Chancery of the Orders of Knighthood to Mr Orrell 16.10.1956; OBE award ceremony.
- 10.33 1 x record sheet, “Mr JH Orrell’s Flying Time for 1957”, with 2 handwritten supplementary sheets.
- 10.34 1 x letter from Mr Orrell to major JH Cordes (Guild of Air Pilots and Air Navigators), 20.5.1958; acknowledging receipt of certificate and related matters.

- 10.35 1 x letter from the Shuttleworth Trust to Mr Orrell, 27.7.1958; enquiring if he could fly their Avro 504K at the Lindholme Airshow (on headed notepaper).
- 10.36 1 x Avro (Manchester) memorandum from Mr Orrell seeking permission to fly the Avro 504K at Lindholme, 16.9.1958.
- 10.37 1 x newspaper cutting, "Profile: 'Jimmy' Orrell OBE", (no date/source, probably Hawker Siddeley Group Publication, c1960).
- 10.38 1 x letter from the Guild of Air Pilots and Air Navigators to Mr Orrell, 21.11.1957; inviting him to become a Liveryman of the Guild (on headed notepaper).
- 10.39 1 x application form for Master Pilot Certificate, to the Guild of Air Pilots and Air Navigators, completed by Mr Orrell, dated 14.3.1958.
- 10.40 1 x letter from the Guild of Air Pilots and Air Navigators 16.6.1958; reply to Mr Orrell's letter of 20.5.1958 9 (item 10.34).
- 10.41 1 x letter from Mr Orrell to Guild of Air Pilots and Air Navigators, 18.6.1958; response to letter of 16.6.1958 (item 10.40), with attached personal flying history (2 sheets).
- 10.42 1 x invoice for fee payable on becoming a Freeman of the City of London, 19.3.1958.
- 10.43 1 x letter from the Guild of Air Pilots and Air Navigators to Mr Orrell, 3.7.1958; inviting him to the robbing ceremony.
- 10.44 1 x letter from the Guild of Air Pilots and Air Navigators to Mr Orrell, 10.7.1958; award of Master Air Pilot Certificate.
- 10.45 1 x programme, "Exchange of BOAC 707 Training Aircraft at Shannon, 14<sup>th</sup> March 1961" (Guild of Air Pilots and Air Navigators event; 2 sheets).
- 10.46 1 x guest list and timetable for Shannon event (as item 11.31; 2 sheets).
- 10.47 1 x Guild of Air Pilots and Air Navigators Court membership list, 1962/3 session.
- 10.48 1 x Guild of Air Pilots and Air Navigators Court membership list, 1964/5 session.
- 10.49 1 x newspaper cutting, "The man with a Siskin nose" (no date/source, c1969); brief interview with Mr Orrell.
- 10.50 1 x booklet, The Livery of the City of London (London, The Livery Committee, 1969; 8pp; ill.).
- 10.51 1 x letter from the Avro 504 Club to Mr Orrell, 22.1.1975; inviting membership of the group (on headed notepaper).
- 10.52 1 x letter from Aeroplane Collection Ltd to Mr Orrell, 26.2.1975; thanking him for accepting honorary membership (on headed notepaper).
- 10.53 1 x memorandum of association of the Aeroplane Collection Ltd. c1975 (13 sheets).

- 10.54 1 x personal letter from RS Nielsen to Mr Orrell, 30.11.1978.
- 10.55 1 x poster, Shackleton AEW 2; present to Mr Orrell from No.8 Squadron, RAF c1980.
- 10.56 1 x journal, Aeroplane Monthly, Vol.8, No.4 (April 1980); includes two articles on the Avro Anson.
- 10.57 1 x journal, , Aeroplane Monthly, Vol.8, No.10 (October 1980); includes article on Mr Orrell. Also 1 x photocopy of this article (3 sheets).
- 10.58 1 x newspaper cutting “ Jimmy Orrell – pilot with magic touch” (The Journal, 5.2.1981; brief biography.
- 10.59 1 x programme for Manchester Airport’s 50<sup>th</sup> anniversary celebrations, 25.6.1988, with 1 x accompanying letter from BR Robinson (Manchester Airport Archivist) to Mr Orrell, 11.7.1988.

#### 11. AWARD OF OBE

- 11.1 1 x book, Statutes of the Most Excellent Order of the British Empire. 1954 with accompanying letter.
- 11.2 1 x letter patent, accompanying award of O.B.E.

#### ADDITIONS TO ORRELL COLLECTION, SECTION 3

Photographs of Mr Orrell, and aircraft associated with him, at various stages of his career.

- 3.6 Mr Orrell and colleagues in front of Berkshire Aviation tours Avro 504, early 1930s.
- 3.7 Mr Orrell and colleagues in uniform of Midland and Scottish Air Ferries, standing in front of one of the Company’s aircraft, c1933/34.
- 3.8 Mr Orrell and crew in uniform in front of aircraft. Imperial Airways, c1935/37.
- 3.9 HP42Es at Sharjah, late 1930s.
- 3.10 HO42E landing at Sharjah, late 1930s.
- 3.11 Prince Ali Khan and party at Sharjah, reception committee and onlookers, late 1930s.
- 3.12 Prince Ali Khan and party passing guard of honour, Sharjah, late1930s.
- 3.13 Guards to Ali Khan at Sharjah, late 1930s.
- 3.14 Reception for Prince Ali Khan. Band and Banner reading ‘Most Cordial Welcome To Thee Oh Our Spiritual Father’, late 1930s.
- 3.15 Flying Boat, taken at Cairo Stop, late 1930s.

- 3.16 All that was left of AP42 G-AA after crash and fire, late 1930s.
- 3.17 Unidentified member of flight crew, Mr Fielding, Mr Orrell and Roy Chadwick descending from Avro plane, c1947.
- 3.18 Mr D Murphy, Mr D Rogers, Mr J Orrell (all chief test pilots) in flight deck of Avro Tudor 8 4-jet experimental airliner, c1950s or late 40s.
- 3.19 Mr Orrell, unidentified officer, Mr Atkins (AV Roe, Manchester) photographed beside aircraft engines. Ontario, Canada, c1949.
- 3.20 Mr Orrell in thoughtful mood in front of aircraft, 1949.
- 3.21 Receiving line, including Mr Orrell, being presented to the Duke of Edinburgh, 1950s.
- 3.22 Mr Orrell, in flying gear, in cockpit of plane. Unidentified man in uniform consulting with Mr Orrell, c1950s or late 40s
- 3.23 Jimmy borrell and Bill Thorn in front of plane, c1947.
- 3.24 'Dicky' Banks, Jimmy Orrell, Jimmy Nelson, Stan Nicholl in group in front of plane. One other unidentified man, circa late 40s.
- 3.25 Mr Orrell in front of plane engine, c1950s.
- 3.26 Mr Orrell in flying gear, c1949.
- 3.27 Mr Orrell in flying gear, c1949.
- 3.28 Mr Orrell climbing into cockpit of Avro 504, c1950s, taken at Airshow?
- 3.29 Mr Orrell at home with model plane in his hands, c1970s.
- 3.30 Mr Orrell presenting prize at Golf Club, circa late 1970s.
- 3.31 Mr Orrell presenting prize to gentleman member, circa late 1970s.
- 3.32 'Robbie' Robinson, Jimmy Orrell, Jimmy Harrison, early 1980s.
- 3.33 Jimmy Orrell on 80<sup>th</sup> birthday with CO RAF Lossiemouth, 9<sup>th</sup> December 1983.
- 3.34 Jimmy Orrell on 80<sup>th</sup> birthday with CO RAF Lossiemouth and crew of Shackleton from Lossiemouth, 9<sup>th</sup> December 1983.
- 3.35 'Robbie' Robinson, Charlie Mansfield, Jimmy Orrell standing in front of aircraft.

#### Aircraft

- 3.36 Avro 707 taking off, c1949/50, RHS view.
- 3.37 Avro 504 (restored?) in flight, c1950s, LHS ¾ front view.

- 3.38 Avro 707 on ground, c1949/50, RHS view.
- 3.39 Avro 'Aries II' in flight at Shawbury, 20<sup>th</sup> February 1947, LHS view.
- 3.40 Avro 19 Anson Civil Version Belgian Registered in flight, c1950, LHS view.
- 3.41 Avro Shackleton MR in flight, c1949/50, LHS view.
- 3.42 Avro 707 on ground (loading?), c1949/50, RHS rear view.
- 3.43 Shackleton, prototype Griffon, January 1949 on ground taxiing, front view.
- 3.44 Shackleton, prototype Griffon, January 1949, on ground taxiing, LHS  $\frac{3}{4}$  front view.
- 3.45 Shackleton MR2 in flight, early 1950s, LHS view.
- 3.46 Avro 504 in flight at Air Display with watching crowd, circa mid 1950s, RHS top view.
- 3.47 Avro 504, Avro Lancaster, Avro Vulcan in air c1952 or slightly later, front views.
- 3.48 Shackleton AEW2 at Woodford, on ground taxiing, c1960s, LHS  $\frac{3}{4}$  front view.
- 3.49 Tudor VIII in flight circa September 1948, LHS visible almost front view.
- 3.50 Tudor VIII in flight, circa September 1948, LHS view.
- 3.51 Tudor VIII first flight, 6<sup>th</sup> September 1948, LHS  $\frac{3}{4}$  front view.

#### SUPPLEMENT TO ORRELL COLLECTION

#### Copies of Drawings commission from Mr E Miller, GAA, for the book on Mr Orrell, 'The Quiet Test Pilot'.

- 1 Avro 504k – the first aircraft Jimmy Orrell flew.
- 2 De Havilland DH60 Gipsy Moth in RAF colours.
- 3 Armstrong Whitworth AW Siskin IIIA fighter – as flown by Jimmy Orrell in the RAF's No 25 Squadron.
- 4 De Havilland DH83 Fox Moth in Midland and Scottish Air Ferries colours.
- 5 Airspeed Ferry airliner used by Midland and Scottish Air Ferries.
- 6 Avro 618 'Ten' airliner flown by Jimmy Orrell from Renfrew and Hooton Park.
- 7 Handley-Page HP42E 'Hannibal' class airliner flown across the Middle East and Africa by Jimmy Orrell, in Imperial Airways service.
- 8 De-Havilland and DH91 Albatross airliner, flown by Jimmy Orrell on the London-Paris 'shuttle' in Imperial Airways service.

- 9 Avro 652A Anson I.
- 10 Lockheed 414 Hudson – the type of aircraft Jimmy Orrell flew on the clandestine wartime Scotland-Sweden run in BOAC service.
- 11 Avro 683 Lancaster BIII – some 917 of which aircraft were tested by Jimmy Orrell in his career as a test-pilot at Woodford.
- 12 Avro 685 York C1, a passenger and freight carrying development of the Lancaster, which was largely assembled at Ringway (now ‘Manchester’) Airport.
- 13 Avro 688 Tudor IV as delivered to British South American Airways (BSAA), and in whose testing Jimmy Orrell was heavily involved.
- 14 The Avro Canada C102 ‘Jetliner’ – which was test-flown by Jimmy Orrell at Malton, before he handed later testing over to the local Canadian pilots.
- 15 The Avro 696 Shackleton GR1 – which was put through all its prototype and production testing by Jimmy Orrell, OBE.

#### Additional Material

- 16 Portrait of Squadron Leader Ken cook, DFC, later Avro Test Pilot at Woodford, as he appeared in London, 1942.
- 17 Announcement of Retirement of Mr Cook as Avro test pilot on Friday, 28<sup>th</sup> January 1949, with biographical details.
- 18 Cartoon ‘Test Pilots 1947’ (includes Jimmy Orrell).
- 19 Cartoon of Mr Cook flying Arthur Brown and ‘Digger’ in ‘overloaded’ plane, 1948.

#### ADDITIONS TO THE ORRELL COLLECTION, SECTION 3 (contd)

#### Photographs of Mr Orrell, and of the aircraft associated with him, at various stages of his career.

(Used by Mr P Clegg for his book on Mr Orrell, ‘The Quiet Test Pilot’).

- 3.52 Mr Orrell as a boy in the uniform of a bugler in the Boys’ Brigade, c1914 – 1918.
- 3.53 Mr Orrell and his wife Nan taking a meal with another pilot and their engineer between flights. c1920s.
- 3.54 Mr Orrell flying Avro 504K G-ABLL over Derbyshire, trying to fly supplies to the snowbound village of Flash Bar. 2/3/33.
- 3.55 Mrs Orrell sitting in the cockpit of DH.60X Moth G-EBRI at Barton Aerodrome, with three local ladies waiting their turn as passengers. 1931.

- 3.56 Mr Orrell flying Avro 504K G-ABLL over Barton while his engineer, Tom Harriman, goes wing-walking. 1933.
- 3.57 Mr Orrell (in white overalls) and his passengers beside DH. Dragon G-ACDL of Midland and Scottish Air Ferries at Cambelltown . Among the passengers are Mr Greachy (John Sword's representative, far left), and the local landowner with his dog. 1933.
- 3.58 DH. Dragon G-ACCZ being taxied by Mr Orrell at Islay, while locals hold the wing tip and tail. 1933 – 1934.
- 3.59 Mr Orrell (left, in pilot's uniform) with pilot Thomas Thomlinson, two engineers and a local pantomime dwarf, one of their regular customers, at Stanley Park airfield in Blackpool, in front of DH. Dragon G-ACCT. 1934.
- 3.60 Refuelling an HP.42 from a Shell bowser at a desert stop. c1937.
- 3.61 Mr Orrell in front of HP.42E G-AAXF "Helena" at Cairo. 1937.
- 3.62 The remains of HP. 42E G-AAXE "Hengist" after catching fire in a hangar at Karachi. 1/6/37.
- 3.63 Mr Orrell and his Australian First Officer Mulholland on horseback in Libya, after being stranded there following the failure of their aircraft, January 1939.
- 3.64 AV Roe test pilots. Seated L- R: "Bill" Thorn, "Sam" Brown, "Jimmy" Orrell. Standing, L – R, from Empire Test Pilot's School courses 1 and 2: Flt. Ldr. J Knight, Sqdn. Ldr. Ken Cook, Flt. Lt. "Johnnie" Walker. 1945.
- 3.65 Avro personalities beside Avro 688 Tudor II G-AGSU after its first flight. L – R: A Stewart (Experimental Dept. Manager), "Bill" Thorn (Chief Test Pilot), Roy Chadwick ( Director/Chief Designer), "Jimmy" Orrell, Arthur Bowes (Flight Engineer), Jack Dobson (son of Sir Roy Dobson). 10/3/46.
- 3.66 Mr W Farren, Director of Technical Development at the Air Ministry with the crew of prototype Avro 696 Shackleton VW126. L – R: Sqdn. Ldr. "Ricky" Esler, "Jimmy" Orrell and Flight Engineer A Blake. 9/3/1949.
- 3.67 Mr Orrell in flying gear with an engineer in front of the Shuttleworth Trust's Avro 504K E3404 following its restoration at Woodford. August 1955.
- 3.68 Mr Orrell in the cockpit of Avro 504K E3404, test running the engine at Woodford. August 1955
- 3.69 Retired Avro test pilots "Robbie" Robinson, "Jimmy" Orrell and "Jimmy" Harrison in front of Avro Vulcan XM603 at Woodford. 1980s.

#### Aircraft

- 3.70 Avro 688 Tudor II G-AGSU airborne, LH view. c.August 1946.
- 3.71 Avro 688 Tudor II G-AGSU airborne, underside view. c.August 1946.

- 3.72 Avro 688 Tudor IV G-AHMK "Star Lion" for BSAA at Woodford. LH view. 29/9/47.
- 3.73 Avro 701 Athena I prototype VM125 airborne, LH view. c. June 1948.
- 3.74 Avro 701 Athena I prototype VM125 airborne, underside view. c. June 1948.
- 3.75 Avro 688 "Jet" Tudor VIII VX195 being readied for its first flight at Woodford.  $\frac{3}{4}$  RH view. 6/9/48.
- 3.76 Avro 688 "Jet" Tudor VIII VX195 over Southern England during its first flight, piloted by Mr Orrell. 6/9/48.
- 3.77 Avro 688 "Jet" Tudor VIII VX195 taking off at Farnborough airshow. 7/9/48.
- 3.78