

QC

Avro

C-105

7-0400-71

ISS. 4

AVRO AIRCRAFT LIMITED
INTER-DEPARTMENTAL MEMORANDUM

TL 113-58/04

NS

UNCLASSIFIED

Ref: 8229/11/J
Date: 17 April, 1958
To: Mr. C.V. Lindow (7 copies for R.C.A.F.)
From: E.F. Burnett
Subject: Arrow 1 - Weight & Balance 5th Flight

ANALYZED

Herewith Weight and Balance data for Arrow 1 # 25201
5th flight.


E.F. Burnett
Weights Supervisor

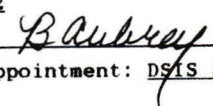
EFB/ag

cc: Messrs. J.C. Floyd
R.N. Lindley
F.P. Mitchell
D.N. Scard
G. Hake
T. Roberts
J. Thorne
J. Lucas
A.J. Crust
Central Files

Classification cancelled / changed to: UNCLASSIFIED

By authority of: DRDA 7/DARET 5-8/DAS Eng 6-4-5

Date: 5 Nov 1992

Signature: 

Unit / Rank / Appointment: DSIS 3, Secretary CRAD HQ DRP



53759

Arrow 1
Aircraft 25201
Date 17 April, 1958

Report: 7-0400-71
Issue : 4
Sheet : 1

SECRET
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WEIGHT & BALANCE SUMMARY FLIGHT #5

	<u>WT. (lb)</u>	<u>H. ARM</u>	<u>% H.A.C.</u>	
1. Condition at startup - OWE	67716	545.59	30.28	U/C Down
for #3 flight plus fuel as	67716	544.14	29.87	U/C Up
indicated on instrument				
pack gauges.				
2. Engine run up, checks, taxi.				
3. Weight at take off (estimated)	66716	545.67	30.29	U/C Down
	66716	544.21	29.89	U/C Up
4. Weight at landing	51500	547.70	30.85	U/C Down
(estimated fuel distribution)	51500	545.80	30.33	U/C Up
5. Weight at landing (actual	51452	548.22	31.00	U/C Down
fuel distribution)	51452	546.32	30.47	U/C Up

Note:-

No. 6 port tank indicated 300 degrees after landing. This is an impossible condition and for the actual landing weight (5 above) the tank is considered to be empty.

FLIGHT 1
25201
5

DATE: April 17, 1953
REPORT: 7-0400-71-4
SHEET: 2

~~RESTRICTION OF DISCLOSURE~~

SECRET

THE AIRCRAFT WAS NOT FLIGHTED BEFORE FLIGHT

SCALE	KIT	CELL	LOAD	CORR. STIL	WEIGHT
Wing Jacking Point - Port					
Wing Jacking Point - Starboard					
Nose Jacking Point					
TOTAL					

WT (lbs) H. ARM (ins) % H. A C

Total at Fwd Jacking Point
Total at Aft Jacking Points
TOTAL as weighed

Less Pilot
Less Observer
Less Elevator Uplocks
Less Intake Planks
Less Tailcone Planks
Less 1/2 Down Locks

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Less Wt ~~67716~~ ~~545.59~~ ~~30.27~~ 1/0 out
Less 1/2 ~~67716~~ ~~544.11~~ ~~29.87~~ 1/0 out
Less Fuel (see Chart 1 below) 19120 540.12
Operational Wt Empty (See sheet 2 of weighing for flight #3) ~~48596~~ ~~547.74~~ ~~30.87~~ 1/0 out
Operational Wt Empty ~~48596~~ ~~545.72~~ ~~30.31~~ 1/0 out

Before Flight

Chart Fuel Gauge Readings ~~XXXXXXXXXX~~

#2 Chart Fuel Gauge Readings ~~XXXXXXXXXX~~ After Flight

L.H. Deg.	R.H. Deg.	Total Deg.	Total lbs	H. ARM INS
-	245	245	1960	354.59
257	-	257	2056	435.23
149	144	293	2344	446.14
84	73	157	1256	502.57
158	139	297	2376	543.37
146	137	283	2264	537.11
284	275	559	4472	624.30
174	125	299	2392	675.50
			19120	540.12

Fuel	L.H. Deg.	R.H. Deg.	Total Deg.	Total lbs	H. ARM INS
1	-	0	0	0	354.59
2	25	-	25	200	435.23
3	12	0	12	96	446.14
4	10	0	10	80	502.57
5	164	135	299	1912	543.37
6	U/S	0	0	0	537.11
7	25	12	37	296	624.30
8	24	0	24	272	675.50
Total				2356	556.38

Cockpit Gauge L.H. 9000
R.H. 10150

17 April, 1958

7-0400-71-4

3

SECRET

25201

201 - 301

1

5

67716

19120

67716
67716

545.59
544.14

30.27
29.87

67716
-1000
66716

545.59
539.96
545.67

30.29

66716

544.21

29.89

48596

545.72

1011
1060
1209
648
2376
1168
2307
1234

11013
39609

541.03
544.85

30.07

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48596

547.74

62
65
74
40
2376
71
141
75

2904
51500

547.00
547.70

30.85

51500

545.80

30.33

214:
Report:
Test:

7-0400-71-4

L


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valley, and the area is a "red" soil.