

5

FILE IN VAULT



ANALYZED

SECRET
UNCLASSIFIED

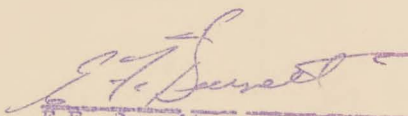
AVRO AIRCRAFT LIMITED
INTER-DEPARTMENTAL MEMORANDUM

135009

ANALYZED

Ref: 1012/11/J
Date: 7 June, 1958
To: Mr. C.V. Lindow
From: E.F. Burnett
Subject: Arrow 1 - Weight & Balance 10 Flight

Herewith Weight & Balance data for Arrow 1 25201 Flight 10.

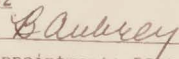

E.F. Burnett
Weight Supervisor

EFB/ag
cc: Messrs. F.P. Mitchell
D.N. Seard
J.C. Floyd
R.N. Lindley
T. Roberts
G. Hake
J. Thorne
J. Lucas
A. Crust (7)
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



55346
12496645

40
noted R
Ottawa

Ref:
Date:
To:
From:
Subject:



National Research Council
Canada

C.I.S.T.I.

Aeronautical and

Mechanical

Engineering Library

Conseil national de recherches
Canada

I.C.I.S.T.I.

Bibliothèque

d'aéronautique

et de génie mécanique

TO
A

DATE

JAN 07 1993

Report no.: QCX - AVRO - CF105 - R-7-0400-71-ESS-9

has been ☐ downgraded to : _____

☒ de-classified

by (Name): Michel W. Drapeau

(Dept.): A/DND Coordinator, Access to Information

Date: Dec. 7, 1992

R. Auger
Signature

Date: 7 June, 1958
 Report: 7-0400-71-9
 Sheet: 1

SECRET

WEIGHT AND BALANCE CLEARANCE FOR AIRCRAFT

Serial No. <u>25201</u>		C.G. Limits <u>28% - 31%</u>	Crew <u>1</u>	
Flight No. <u>10</u>		Gross Wt. <u>68080</u>	Fuel Load <u>18850</u>	<u>12</u>
CONDITION	WEIGHT lb	H. AL. ins.	L.A.C. %	
<u>TAKE-OFF</u>				
Gross Wt (from Sheet 2)	68080	542.43	29.40	U/C Down
Gross Wt (from Sheet)	68080	540.94	28.99	U/C Up
<u>TAKE-OFF</u>				
Gross Wt U/C Down (above)	68080	542.43		
Less Fuel - Start Up Taxi, Take-off	-1200	539.97		
Gross Wt. - Take off	66880	542.47	29.41	U/C Down
Less Moment 101,274 101,274 lb/in				
Gross Wt. Take off	66880	540.96	29.00	U/C Up
<u>MID-FLIGHT</u>				
Operational Wt Empty U/C Up (from sheet)	49230	540.92		
Tanks				
1	1154	354.59		
2	1137	435.23		
3 x 2	1326	446.14		
4 x 2	791	502.47		
5 x 2	2195	548.87		
6 x 2	1352	589.11		
7 x 2	2450	627.57		
8 x 2	1520	675.52		
Total Fuel	11925	541.61		
Gross Wt. - Mid Flight	61155	541.05	29.02	U/C Up
<u>LANDING</u>				
Operational Wt. Empty - U/C Down (from sheet)	49230	542.98		
Tanks				
1	323	354.59		
2	318	435.23		
3 x 2	371	446.14		
4 x 2	221	502.47		
5 x 2	2279	548.87		
6 x 2	378	589.11		
7 x 2	685	627.57		
8 x 2	425	675.52		
Total Fuel	5000	544.01		
Gross Wt. - Landing	54230	543.07	29.58	U/C Down
Less Moment 97,969 lb/in				
Gross Wt Landing	54230	541.21	29.06	U/C Up

UNCLASSIFIED
NON CLASSIFIED

Loading Conditions and C.G. Travel Approved _____

SECRET

WEIGHT AND BALANCE CLEARANCE FORM ARROW 1
ACTUAL WEIGHT, LOAD

Sheet # 2

CONDITION	WEIGHT lb	H. ARM ins.	M.A.C. %
AIRCRAFT BASIC WEIGHT FOR FLIGHT TEST	48378	543.97	
1. <u>Less: Equipment Not Installed</u>	-	-	
TOTAL EQUIPMENT NOT INSTALLED			
2. <u>Plus: Additional Equipment Installed</u>			
Residual Fuel	285	557.84	
Trapped Fuel	372	600.00	
TOTAL ADDITIONAL EQUIPMENT INSTALLED	657	551.71	
3. <u>Plus: Crew</u>			
Pilot	195	168.00	
Observer	-	-	
TOTAL CREW	195	168.00	
OPERATIONAL WEIGHT EMPTY (U/C Down)	49230	542.98	
Operational weight empty (U/C Down)	49230	540.92	
4. <u>Fuel To Be Carried</u>			
# 1 Tank	1976	354.59	
# 2 Tank	1946	435.23	
# 3 Tank x 2	2270	446.14	
# 4 Tank x 2	1353	502.47	
# 5 Tank x 2	2195	548.87	
# 6 Tank x 2	2315	589.11	
# 7 Tank x 2	4194	627.57	
# 8 Tank x 2	2601	675.52	
TOTAL FUEL	18050	541.00	
GROSS WEIGHT (U/C Down)	68080	542.43	29.40
Cockpit Gauges L.H. 9500			
Cockpit Gauges R.H. 9350			

UNCLASSIFIED
NON CLASSIFIE

