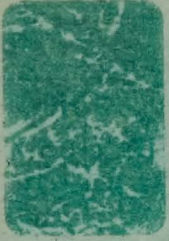


FILE IN VAULT.

ANALYZED



QC
Avro
C-105
7-0400-71
Iss. 4

Ref:
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JAN 07 1993
Dec. 7, 1992

Report no.: QCX - AVRO - CF105- R-7-0400-71-Iss-4

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

Arrow 1
Aircraft 25201
Date 17 April, 1958

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

SECRET
UNCLASSIFIED
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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	30.27	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.

Date: 17 April, 1958
 Report: 7-0400-71-4
 Sheet: 3

SECRET

Serial No. 25201 S.G. Units 231 - 301 Crew 1
 Flight No. 5 Gross Wt. 67716 Fuel Load 19120

	WEIGHT lb	H ₂ ADD lbs	A.C. %	
LIST				
Gross Wt (from sheet)	67716	545.59	30.27	7/8 down
Gross Wt (from sheet)	67716	544.14	29.87	7/8 up
DETAILS				
Weight of fuel tank (above)	67716	545.59		
Less fuel - Start of taxi, take-off	-1000	539.96		
Weight of fuel tank	66716	545.67	30.29	7/8 down
Less weight of fuel tank	66716	544.21	29.89	7/8 up
OPERATIONAL				
Operational Wt - 11-11	48596	545.72		
1	1011	55.78		
2	1060	57.22		
3	1209	61.11		
4	648	50.47		
5	2376	51.87		
6	1168	59.11		
7	2307	57.57		
8	1234	57.82		
Total Fuel	11013	541.03		
Gross Wt - 11-11	59609	544.85	30.07	7/8 up
LANDING				
Operational Wt - 11-11	48596	547.74		
1	62	50.57		
2	65	50.23		
3	74	50.10		
4	40	50.47		
5	2376	51.87		
6	71	50.11		
7	141	50.57		
8	75	50.12		
Total Fuel	2904	547.00		
Gross Wt - Landing	51500	547.70	30.85	7/8 down
Less weight of fuel tank	51500	545.80	30.33	7/8 up

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Landing conditions and S.G. Travel Approved

Envelope attained - based on fuel gauge readings
after flight.

Date: April 17 1958
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Sheets: 4

SECRET

WEIGHT AND BALANCE REPORT

Serial No.	25201	C.G. Limits	28.1 - 30.1	Crew	1
Flight No.	5	Gross Wt.	67716	Fuel Load	19120 lb
<u>CONTINUED</u>		WEIGHT lb	H. ARM ins.	M.A.C. %	
<u>ACT UP</u>					
Gross Wt (from sheet) 2		67716	545.59	30.27	U/C Down
Gross Wt (from sheet) 2		67716	544.14	27.37	U/C Up
<u>TAKE-OFF</u>					
Gross Wt U/C Down (above)		67716	545.59		
Less Fuel - Start Up Taxi, Take-off		-1000	539.96		
Gross Wt - Take off		66716	545.67	30.29	U/C Down
Less Moment 97,969 lb/in					
Gross Wt. Take off		66716	544.21	29.39	U/C Up
<u>MID-FLIGHT</u>					
Operational Wt - Empty U/C Up (from sheet)					
Tanks					
1			354.59		
2			435.23		
3 x 2			446.14		
4 x 2			502.47		
5 x 2			548.87		
6 x 2			539.11		
7 x 2			627.57		
8 x 2			675.52		
Total Fuel					
Gross Wt. - Mid Flight					U/C Up
<u>LANDING</u>					
Operational Wt. - Empty - U/C Down (from sheet)		48596	547.74		
Tanks					
1		0	354.59		
2		200	435.23		
3 x 2		96	446.14		
4 x 2		80	502.47		
5 x 2		1912	548.87		
6 x 2		0	539.11		
7 x 2		296	627.57		
8 x 2		272	675.52		
Total Fuel		2856	556.38		
Gross Wt - Landing		51452	543.22	31.00	U/C Down
Less Moment 97,969 lb/in					
Gross Wt Landing		51452	546.32	30.47	U/C Up

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Loading Conditions and C.G. Travel Approved

