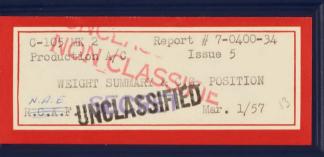
QCX AVro CF105 R-7-0400-34 Iss-5

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Report # 7-0400-34 Sheet # 1-1 Issue 5 Prepared By: K. Griffin Checked By: E. Burnett

INTRODUCTION

The following is a Weight & C.G. Summary of the C=105 MK 2 Production Aircraft, Of necessity some of the figures quoted herein are only of a preliminary nature, particularly in the case of the Rear Fuselage, Engine Installation and some systems which are being extensively redesigned and about which there is as yet very little information available.

Information has been based on the MK 1 Aircraft with relevant changes made sometimes to preliminary scheme drawings and sometimes verbal information. Where no details are available, allowances have been retained as in the MK 1 Aircraft.

GENERAL:

- a) Orenda PS 13 Engines comprise the Power Plant (4,500 lb each).
- b) A package containing 4 "semi-submerged" Sparrow II Missiles (432 lb each) is currently carried.
- c) The R.C.A. Radar Astra I System is installed -- Weight & C.G. location being to the latest breakdown received from them, dated Jan. 11/57. However, the Sparrow III Auxiliaries included in the above breakdown have been deleted and some AVRO installed Antennae added (Total Weight = 2,679.5 lb.)
- N.B. It should be noted that the first MK 2 Aircraft will probably not be as this summary designates, but will be a Flight Test version with Instrumentation replacing the Missile Package etc.

1. STRUCTURE

a) Wings

WEIGHT (1b)

13

MAR 18 1957

Aeronautical Librar

I/Wing complete - miscellaneous production drawing changes, inclusion of actual weights of some machinings etc.

There will be changes to the Inner Wing I/B Ribs, Centre Trailing edge etc., associated with the redesigned engine mounts etc., however, since complete details are as yet unavailable, weight allowances will remain as in MK l Aircraft. It should also be noted that actual weights of MK l machined skins have been checked and the estimates currently recorded tally with the actual weight at nominal thicknesses. However, some skins, notably those machined at AVRO are in some cases well above maximum tolerances, excess weight being of the order of 6 lb/panel. Thus with a set of 12 similarly machined skins excess weight could be as much as 70 lb/A/C. It is hoped that machining techniques will have been improved for the MK 2 A/C and nominal thicknesses more strictly adhered to

Weight Change Increase Ref. 2-1 + 13

b) Fin & Rudder:

Fin - redesign elevator jack pick-up, some actual weights etc.

Weight Change Increase Ref. 2-1 528d 4

Date: March 1st, 1957 Aircraft: C-105 MK 2



Report # 7-0400~34 Sheet # 1-2 Issue 5 Prepared By: K. Griffin Checked By: E. Burnett

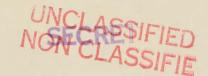
INTRODUCTION

1. STRUCTURE:

N.B. In the MK 1 Aircraft Structural changes are made to the Wing, Fin and Control Surfaces to accommodate the possible necessity of installing a "Buzz Damping" System. These allowances will not be made on the MK 2 Aircraft until the requirements for Damping are confirmed, pending flight test of MK 1 A/C.

c)	Fuselage Sta. 255 ⁿ -485 ⁿ	WEIGHT	(lb)
	Miscellaneous Items - all joint items at Stas. 255	చ	13
	Weight Change Decrease Ref. 2-2	6	13
d)	Duct Bay Sta. 485%-591.65%		
	Lower Panel - all joint items at Sta. 591.65" treated separately (see below) The Floating Duct is being extensively redesigned with an articulated adaptor between floating duct and engine to include gills. No drawings are yet available and it is felt that the weight currently recorded for the duct, together with the adaptor ring (see Engines group) will be adequate. An estimate will be made at the earliest opportunity.		12
	Weight Change Decrease Ref. 2-2	ш	12
e.)	Engine Bay Sta. 591.65%=742.5%		
	Longerons - joint straps called up on "Marry-up" drawings treated separately (see below) Outer Skins - Aft of Sta. 717.36 gauge decrease to .051 from	=	11
	.064. Intermediate Formers - Former 717.36 now intermediate, weight	=	3
	was previously light former Inner Longerons - entirely redesigned - cap from Sta. 591.65-	+	4
	697.28 now steel etc. Engine Access Doors - alterations to surround structure and	+	28
	former tips, fairing added etc. Light Formers - miscellaneous minor changes	co co	5
	Weight Change Increase	+	10
	Ref. 2-2 INCLASTIC		74.5

NONGLASSIFIE



Report # 7-0400-34 Sheet # 1-3 Issue 5 Prepared BY: K. Griffin Checked By: E. Burnett

INTRODUCTION

1. STRUCTURE (continued)

f)	Rear Fuselage Sta. 742.5 Aft.	WEIGHT (1)	<u>o)</u>
	Fixed R.F some changes to MK 1 production drawing estimates are applicable here, parabrake release socket (6 lb) now with structure (see Equipment Group)	+ 12	
	Weight Change Increase	+ 12	

g) Fuselage Joints

This is a new sub-section to include all items of "Marry-up" of
Fuselage components i.e. items not readily assigned to the above
structure components. Items of Fin and Wing "Marry-up" are
already included in the structural weights of these groups.

Fuselage Marry-Upt - not previously considered separately	+ 52
(# Actual Weight change per A/C = $52-11-12-13 = 16$ lb/A/C	
see above structural breakdown).	Crifton and an array area
Weight Change Increase	+ 52
Ref. 2-3	

TOTAL	STRUCTURAL	WEIGHT	INCREASE	+	66

Ref. 2-3

2. LANDING GEAR

	shortening mechanism preliminary Weight Saving by Dowty	∞ 50

TOTAL LANDING GEAR DECREASE - 50 Ref. 2-3

3. POWER PLANT & SERVICES

Engine Controls - based on MK 1 production drawing estimates Fire Extinguishing System - MK 1 production drawing estimates		1 5	
Accessory Gear Boxes on Fuselage - Heat Exchangers called up here (see also Equipment Group)	+	21	
Some MK 1 production drawing changes, some oil lines etc. previously omitted	+	22	
Bendix Fuel Control Unit - deleted, replaced by Lucas Units of			
13 or 14 lb each installed by Orenda		120	
Starter Shroud - first scheme drawings available	+	6	
Miscellaneous changes	+	3	
TOTAL POWER PLANT & SERVICES DECREASE	60	72	

UNCLASSIFIED Ref. 2-4
NONCELASSIFIE



Report # 7-0400-34 Sheet # 1-4 Issue 5 Prepared By: K. Griffin Checked By: E. Burnett

INTRODUCTION

3. POWER PLANT & SERVICES (Continued)

N. B. Although it is fully appreciated that the MK 2 A/C Fuel System will be entirely different from that of the MK 1 A/C Proportioner System, there are currently insufficient details available to evaluate the weight of the MK 2 A/C Selection System which will replace the Proportioners.

4.	FLYING CONTROLS GROUP	WEIGHT	(1b)
	Mechanical Controls - redesign of rudder bearings and bellcranks F/C Hydraulics - Spec. weights were recorded for all servos, now		6
	some actual weights obtainable Manufacturer's Weights of pumps - allowance	+ 2	O
	too low Filter element retainers now steel	+ 2	
	Actual Weights of accumulators and		J
	compensators target weights were	± 2	2
	previously recorded Miscellaneous alterations.	+ 2	1
		-	
	TOTAL FLYING CONTROLS INCREASE	+ 8	3
	<u>Ref. 2-5</u>		
5.	EQUIPMENT GROUP		
	Oil & Hydraulic Fluid Cooling - Heat Exchangers now with Accessorie		0
	Gear Boxes (see Engine Group) Utility Hydraulics - re-issues of MK 1 production drawings reduction	= 2	Œ,
	in compensator target weight etc.	- 1	
	Emergency Power Pack - Initial allowance too high Radio & Radar - latest R.C.A. weights of Jan. 11/57, Sparrow III	CO	3
	Auxiliaries not carried		2
	Brake Parachute - MK 1 production drawing estimates, socket now		~
	in structure. Electrics - addition of brake parachute solenoid valve	4	7
	* A CONTROL OF THE CO		2
	TOTAL EQUIPMENT GROUP DECREASE Ref. 2-6		es es
	A. Com Jan Com To		
6.	OPERATIONAL LOAD		
	Engine Oil Trapped - more detailed estimate in piping etc.	of a	4
	TOTAL OPERATIONAL LOAD INCREASE	-	4
	Ref. 2-6		

UNCLASSIFIED NON CRASSIFIE



Report # 7-0400-34 Sheet # 1-5 Issue 5 Prepared By: K. Griffin Checked By: E. Burnett

INTRODUCTION

SUMMARY

Weight Change - Aircraft Weight Empty

Structure	+	66	lb.
Landing Gear	-	50	lb.
Power Plant & Services	100	72	lb.
Flying Controls	+	83	lb.
Equipment	OND	43	lb.
	Chowdoodha	16	lb.

Weight Change - Operational Load Less Fuel

Trapped Oil + 4 1b.

Weight Change - Operational Weight Empty -(A/C less Fuel)

<u>Issue 4</u>

<u>1ssue 5</u>

44,197 lb.

44,185 lb.

= 12 lb.



WEIGHT CHANGE



Report # 7-0400-34 Sheet # 2-1 Issue 5 Prepared By: K. Griffin Checked By: E. Burnett

WEIGHT (1b)

WEIGHT CHANGES TO 7-0400-34 Issue 4 of February 1st, 1957

MET	GHI CHA	NGE I	E.IG.	UI TIN		
Wir	ıg:					
+	3.84	Centre Line Joints I/W - detailed estimate of hardware				
+	8.40	from aux. spar to main spar. Ribs I/W - Actual weight of Rib # 4 M/S to C/S fwd. section.				
+	6.04	F/Spar to M/Spar Struct production drawing estimates 2 pt. refuelling door Actual Weights of Fus. Side Rib.Aft.	-	5.54 10.29		
		Addition bracket transfer pump tank 4	+	6.04		
			-	0004		
a	9.07	M/Spar to R/Spar Structure - re-estimate of posts based				
		on obtained actual weights	+	4.02		
		Error in previous estimate	C	13.09		
			0	9.07		
	3.86	Wing to Fus. Joint - production drawing estimate seal 359" - 485"				
0	1.46	Strut.Pick-Ups I/W - Minor design changes and error in calcs. of engine mtg. pick-up.				
+	8.64	Structure for Main U/C = re-estimate of U/C pivot assys. details of rib # 24 L/Edge - allowance		2.90		
		previously	+	5.74		
		An actual weight was obtained of the				
		Main U/C pick-up fitting - this was as estimated		5		
			+	8.64		
+	12.53					
Fir	Fin & Rudder					
+	4.33	Fin - redesign of jack pick-up	+	1.46		
		Actual Weights of hinge brackets	+	0.79		
		"Marry-Up" re-estimated	+	2.08		
				4.33		



2.5. Permona, he during the second



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WEIGHT CHANGES TO 7-0400-34 Issue 4 of February 1st, 1957

WEIGHT CHANGE

WEIGHT (1b)

6.09

- 16.00

1.08

Centre Fuselage Sta. 255"-485"

- 12.50 Miscellaneous Items C.F. - the joints at Sta. 255 & 485 were included here now see separate section on fuselage joints below.

- 12.50

Duct Bay Sta. 485" - 591.65"

- 12.33 Lower Panel - based on MK 1 details - joint to E.B. now separated see below.

- 12.33

Engine Bay Sta. 591.65 -742.5

7711	griic Day	0046 7/1607 146.62
63	11.30	Longerons - Joint straps now included with D.B. to E.B.
		joint - see separate joint section below.
0	2.99	Outer Skins - Aft of Sta. 717.36 gauge changed from .064
+	9.89	Intermediate Formers - Former Sta. 717.36 was previously
		considered as a light former - now included here since it is consider-
		ably heavier than the average light former, although it is not machined.
œ	24.75	Light Formers - Former Sta. 717.36 now with Intermediate
		Formers Light Formers Sta. 596.45-692.45
		terminate at Rower Longeron, frame
		tip box structure now considered
		with access doors (see below)

			C	24.75
+]	11.60	Engine Access Doors - deletion of MK 1 type surround		
		structure	0	24.00
		Former tip structure added	+	29.42
		Addition of Fairings	+	6.18
				12 (0
			+	11.60

Lower Formers 7-2.3-725.7 re-estimated -

Miscellaneous changes splice plates etc -

+ 27.73	Inner Longerons E.B From Sta. 697-742.5 structure was assumed as MK 1 - redesign now Sta. 591.65-697.28 - Cap Steel was	+	5.60
	Al072 straps on lower cap etc.		22.13
+ 10.18	assumed as MK 1 - redesign now Sta. 591.65-697.28 - Cap Steel was Al072 straps on lower cap etc. NOTECRASSIFIED		

Production A/O Prepared By: K. Griffin Checked By: E. Burnett WEIGHT CHANGES TO 7-0400-34 Issue 4 of February 1st, 1957 WEIGHT (1b) WEIGHT CHANGE Rear Fuselage Sta. 742.5 Aft. 12.54 Fairing under Rudder - estimate to MK 1 production drawings, socket for parachute release now included with structure. 5.72 Longerons & Torque Box - based on MK 1 production drawing estimates. 5.13 Formers Fixed R.F. - based on MK 1 production drawing estimates. 11.95 Joints Fuselage:

Report # 7-0400-34

Sheet # 2-3 Issue 5

This is a new sub-section to include all items of "Marry-up" of Fuselage components i.e. items not readily assigned to the above structural components. Items of Fin and Wing Marry-up are already included within the structural weights of those groups. Previously the weight of these Marry-up items was included with one or other of the mating components.

- Joint C.F. to D.B. new report, an allowance previously in 5.00 Miscellaneous Structure.
- Joint F.F. to C.F. new report, an allowance was previously 8.14 included in Miscellaneous Structure C.F.
- Joint Air Intakes to F.F. was included with Air Intake 9.52 Structure. This structure is currently being re-estimated and it is felt that the joint allowances etc. were inadequate, hence the introduction of this further weight.
- 25.08 Joint D.B. to E.B. - new report, allowances were previously in Lower Panel D.B. and Longerons E.B. (see relevant sections)
- Joint R.F. to E.B. new report was included in R.F. Weight 4.43

Undercarriage Group

Date: March 1st, 1957

Aircraft: C-105 MK 2

50.00 Main Undercarriage - redesign of shortening mechanism preliminary estimate of weight saving SS NONSECASSIFIE by Dowty.

^{52.17}

Date: March 1st, 1957 Aircraft: C-105 MK 2 NON CLASSIFIE

Report # 7-0400-34 Sheet #2-4 Issue 5 Prepared By: K. Griffin Checked By: E. Burnett

WEIGHT CHANGES TO 7-0400-34 Issue 4 of February 1st, 1957

of rebruary 1st 1957	
WEIGHT CHANGE	WEIGHT (1b)
Power Plant & Services	
+ 1.46 Engine Controls - based on production drawing estimates MK : - 5.06 Fire Extinguishing System - based on production drawing estimates MK 1 A/C	1
+ 43.08 Accessory Gear Boxes on Fuselage - addition of heat ex- changers called up here (see also Equipment Group) Constant Speed drive and engine oil lines etc. based on MK 1 production drawing estimates.	+ 20.98
- 267.00 Engine Service Accessories - deletion of Bendix fuel control units, replaced by Lucas units of 13 or 14 lb each installed by Orenda. They state that their engine weight will cover this increase, hence	
Constant Speed Drive units now with Accessories Gear Boxes	- 147.00 - 267.00
+ 155.63 Starters & Gear Boxes on Engine - Constant Speed Drive Unit transferred here (see above) Starter Shroud - scheme estimate Miscellaneous changes	+ 147.00 + 5.66 + 2.97 + 155.63
- 71.89	
Flying Controls Group	
+ 5.62 Mechanical Controls - redesign of rudder bearings and bellcranks	
+ 60.32 F/Controls Hydraulics - Actual weights of accumulators and compensators - target weights were previously recorded Increase in servos (based on actual weights of elevator servos etc.	+ 22.90 c.) + 7.00
Increase in weights of pumps, now manufacturer's quotes, previously on allowances	
Miscellaneous changes to production	etc + 2.42 + 60.32
+ 6.93 F/C Hydraulics Fin - Servo specification weight increase 4 lb to 9 lb Filter element retainer Steel	+ 5.00 + 1.09
NONCLASSIFIE Miscellaneous changes valves and piping	+ 0.84 + 6.93



Report # 7=0400-34 Sheet # 2=5 Issue 5 Prepared BY: K. Griffin Checked BY: E. Burnett

WEIGHT CHANGES TO 7-0400-34 Issue 4 of February 1st, 1957

WE	IGHT CH	ANGE	WEIGHT	(1b)
Fl	ying Co	ntrols Group (continued)		
+	5.07	F/C Hydraulics I/W - Servos actual weights were Spec. weights Miscellaneous, minor changes	+ + +	4.00 1.07 5.07
+	5.28	F/C Hydraulics O/W - Servos actual weights were Spec. weights Filters element retainers Steel Miscellaneous changes & actual weights piping and couplings etc.	+ + + - +	4.00 3.72 2.44 5.28
+	83.22			
Eq	uipment	Group.		
cod	22.00	Oil & Hydraulic Fluid Cooling - deleted, remaining heat exchangers now incorporated in Power Plant Group where they will be called up with the Accessories Gear Box in- stallation	l	
+	1.36	Electrics R.F addition of solenoid valve for brake parachute		
	7.31	Brake Parachute - based on an estimate to MK 1 drawings,		
+	2.05	socket now included with structure Utility Hydraulics F.F based on MK 1 drawings - actual weights of swivels, addition of valves, piping changes etc.		
-	1.71	Utility Hydraulics C.F based on MK l drawings - some piping changes, actual weights of pressure switches, couplings etc.		
+	4.87	Utility Hydraulics D.B based on MK l drawings - addition of Emergency Power Pack (was included in Electrics see below)	i +	19.01
		Reduction in compensator target weight and fluid	geo	10.03
		Miscellaneous changes piping,	~	4.11
		coupling etc.	+	4.87
o=	0.88	Utility Hydraulics E.B general revisions to MK 1 pro-		
+	4.80	duction drawings Utility Hydraulics I/W - redesign of swivel assys. Addition of flow control valve	+	1.70
		and restrictor NON CLASSIF piping re-routed etc. as MK 1	+	1.80
		SECRELASSIFIEDING 18-150000 0000 us man 1	ed.	4.80

Date: March 1st, 1957 Aircraft: C-105 MK 2

Production A/C

NON CLASSIFIED

Report # 7-0400-34 Sheet # 2-6 Issue 5 Prepared By: K. Griffin Checked BY: E. Burnett

WEIGHT CHANGES TO 7-0400-34 Issue 4 of February 1st, 1957

WEIGHT CHANGE

WEIGHT (1b)

Equipment Group (Continued)

- 22.00 Electrics D.B. Emergency Power Pack now in Hydraulics see above.
- 3.00 Radio & Radar Fixed revised R.C.A. figures of Jan 11/57.
- 43.25 Radar Removable revised R.C.A. figures of Jan. 11/57 (Sparrow III auxiliaries not carried)
- + 44.00 Missile Pack Electronics revised R.C.A. figures of equipment mounted within the pack (Sparrow III auxiliaries not carried)

- 43.07

Operational Load

- + 3.84 Engine Oil Trapped more detailed estimate of piping on MK 1 A/C probably similar figures apply for MK 2
- + 3.84
- 11.57 TOTAL WEIGHT CHANGES

Date: March 1st, 1957 Aircraft: C-105 MK 2

Production A/C



Report # 7-0400-34 Sheet # 3-1 Iss. 5 Prepared By: K. Griffin

WEIGHT AND C.G. SUMMARY

	WEIGHT	H. ARM	V. ARM
DESCRIPTION	<u>lb.</u>	ins.	ins.
STRUCTURE	18,277.80	565.94	137.70
Wing	9,962.04	643.15	142.16
Fin & Rudder	1,020.70	754.06	209.27
Fuselage Fwd. Sta. 255"	2,415.63	186.17	129.37
Sta. 255"-485"	1,672.59	379.71	129.51
Sta. 485"-591.65"	949.54	533.12	103.76
Sta. 591.65"-742.5"	1,513.14	661.62	109.24
Sta. 742.5" Aft.	691.99	795.69	128.15
Marry-up	52.17	470.59	103.77
UNDERCARRIAGE - Retracted	2,554.33	487.53	134.52
Main Undercarriage	1,901.62	539.31	141.00
Main U/C Doors & Fairings	294.36	539.29	136.01
Nose Undercarriage	333,81	170.80	99.70
Nose U/C Door & Fairing	24.54	162.24	88.23
POWER PLANT & SERVICES	10,774.34	673.94	121.51
Engines & Accessories PS 13	9,090.12	690.98	121.17
Gear Box & Drives on Fuselage	281.84	601.70	102.49
Engine Controls	32.43	375.76	118.61
Gear Box, Starter & Drive on Engine	315.45	609.12	105.24
Engine Nose Bullet	70.00	587.17	116.00
Fire Extinguishing System	70.46	702.44	134.83
Engine Mountings	156.53	666.00	136.69
Fuel System	757.51	543.10	135.69
FLYING CONTROLS GROUP	1,793.94	686.84	140.05
Mechanical Flying Controls	942.92	688.24	148.66
Hydraulic Flying Controls	851.02	685.29	130.52
EQUIPMENT FIXED & REMOVABLE	7,948.78	325.31	111.61
Instruments	46.07	163.68	138.70
Probe	23.00	9.74	108.00
Cockpit Pressure Sealing	5.00	186.00	130.00
Oxygen System	43.44	227.71	142.18
Air Conditioning System	897.00	331.77	133.38
Hydraulic Main System	597.49	498.76	116.66
Cabin Insulation	11.91	179.24	130.00
Brake Parachute	62.38	769.41	143.24
Electrical System	1,216.85	427.55	112.61
Low Pressure Pneumatics	39.01	478.47	127.28
Surface Finish	100.00	591.52	140.20
Intake De-icing Boots	51.84	197.02	118.00
Radome Anti-icing	8.88	51.49	125.00
Canopy Actuation	62.05	222.11	154.47
Cabin Consoles	17.45	174.76	124.34
Radar Door Actuation	10.00	268.00	95.00
Radar Door Actuation Ejector Seats Radio & Radar removable Radio & Radar fixed Sparrow Pack Structure	186.00	201.10	136.25
Radio & Radar removable	1,906.80	178.38	104.17
Radio & Radar fixed	55 631.00	234.67	115.71
	850.00	390.84	96.00
Sparrow Pack Mechanisms	625.32	376.67	99.22
	cor	ntinued	

DESCRIPTION			WEIGHT	H. ARM	V. ARM	M.A.C.
				LIIV	LIIVO	
Equipment (Fixed & Remov.) (Cont	'd.)					
Sparrow Pack Hydraulics			350.19	368.83	99.00	
Sparrow Pack Electronics			143.00	332.00	100.00	
Sparrow Pack Electrics			64.10	362.29	95.00	
AIRCRAFT WEIGHT EMPTY			41,349.19	548.23	128.37	
USEFUL LOAD		and the same of th	18,625.76	516.38	136.67	
Crew			430.00	194.00	136.50	
Oil			138.97	636.92	110.57	
Alcohol			22.00	93.00	138.00	
Engine Fire Extinguisher Fluid			25.00	730.00	129.00	
Residual Fuel			218.40	553.98	134.04	
Missiles			1,728.00	389.29	88.30	
Oxygen Charge			13.39	259.69	159.91	
Water for Air Conditioning			260.00	268.00	132.00	
Fuel for Combat Mission	= 10		15,790.00	542.05	142.30	
	U/C	Up	*** OF OF	538.34	130.95	28.27
Normal Combat Mission	77/0		59,974.95	~~~ ~/	200 07	00 00
	0/6	Down	40.5.00	539.94	128.31	28.71
Half Combat Mission Fuel (1,012 gals. @ 7.8 lb/gal.)			7,895.00	543.20	139.55	
	U/C	Up		537.95	128.81	28.17
Combat Weight (Half Combat			52,079.95			
Mission Fuel)	U/C	Down		539.79	125.77	28.67
	U/C	Up	enganizarium orași mătrophia. As main precinculosidarium	537.01	126.89	27.91
Operational Weight Empty			44,184.95			
	U/C	Down		539.18	123.31	28.50
	U/C	Up		543.02	128.46	29.56
Operational Weight Empty			42,456.95			
Less Missiles	U/C	Down		545.28	124.74	30.19
Max. Internal Fuel (2,492 gals.		-	19,438.00	541.85	144.16	POT CATOON CONTRACTOR
@ 7.8 lb/gal.	12		was offer out of the output of	1 10	7/	ресуркаты выдан аполность скосне
	U/C	Up	1 100 05	538.49	132.16	28.31
A.U.W. Max. Internal Fuel	77/0		63,622.95	*10.00	700 67	24 72
	0/6	Down		540.00	129.67	28.73
Max. External Fuel (500 gal. @ 7.8 lb/gal. + Drop Tank)			4,226.00	522.34	60.64	
	U/C	Up	and the second s	537.48	127.71	28.04
A.U.W. Max. Internal &			67,848.95			
External Fuel	U/C	Down		538.89	125.38	28.42

N.B. 1) Aircraft Datum = 120" above arbitrarily chosen ground line.

2) Revised fuel tank capacities in Centre Fuselage Tanks for

MK 2 A/C are now incorporated.

3) Normal Mission Fuel requirements have been increased in the order of 600 lb by Aerodynamics Dept.



EUBENE DIETZBEN -CD.

340R-20 DIETZGEN GRAPH PL

AVRO AIRCRAFT LTD.

WEIGHT AND C. OF G BY FUNCTIONAL COMPON

MALTON, ONT.

C-105 MK 2

DESCRIPTION						COMP NO.	V	VEI	GHT	
LEADING EDGE INNER WIN	3	1 () 5	00	00	63		2	21	31
								8	21	31
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AVRO AIRCRAFT LTD. MALTON, ONT.

WEIGHT AND C. OF G BY FUNCTIONAL

COMPONE

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AVRO AIRCRAFT LTD.

WEIGHT AND C. OF G BY FUNCTIONAL

COMPON

MALTON, ONT. PROJECT C-105 MK 2

	DESCRIPTION	REFERENCE NO.	NO. WEIGHT
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