MOD Format 756(Merlin) (Established Jul 24)

## Aircraft Weighing Report Multi-Point Electronic Load Cell Method

	orrection Fig					·	· · · · · · · · · · · · · · · · · · ·
Weighing	Serial No	Indicated	Indicated	Latitude	Calibration	Symbol	Actual Load
Position		Load	Zero Error	Correction Load	Correction	Cymbol	/ lotual Eoua
Weigh 1							
Nose Pt						Wt1 Pt	
Nose Stbd						Wt1 Stbd	
Main Pt Inner						W1	
Main Pt Outer						W2	
Main Stbd Inner	1	i				W3	
Main Stbd Outer						W4	
				, F	irst Weigh Total	w	
Weigh 2							
Nose Pt				9··· –		Wt1 Pt	
Nose Sthd						Wt1 Stbd	
Main Pt Inner						W1	
Main Pt Outer						W2	
Main Sthd Inner						W2	
Main Stbd Inner						V	
	ļ	I		<u> </u>	and Waigh Total	VV4 \\\\	
Wojah 3							
Noso Dt	ı — — — — — — — — — — — — — — — — — — —	· · · · · · · · · · · · · · · · · · ·	VVEI	yn s		WH4 Dt	
Nose Pl							
Nose Stod						Wt1 Stba	
						VV1	
Main Pt Outer						W2	
Main Stbd Inner						W3	
Main Stbd Outer						W4	
				T	hird Weigh Total	W	
For completion of	of the following s	ection choose the	MEDIAN of the 3 weight	ghs above <i>either weig</i>	h 1, 2 or 3.		
Nose Pt Weight						Wt1 Pt	
Nose Stbd Weight						Wt1 Stbd	
Main Pt Inner Weight						W1	
Main Pt Outer Weight						W2	
Main Stbd Inner Weight						W3	
Main Stbd Outer Weight						W4	
Weigh Total						W	
Longitudinal Calculations							
Centre Line Mois U/C to W/PD Aircraft at Angle							
Distance of C of G from Main Jacking Point as Weighed =							
(VV)							
Aircraft Logitudinal Out of Level Angle as a Decimal						ха	
Andran Logitudinal Out of Level Angle as a Decimal							
vertical Centre of Gravity Position (Z figure taken from Aircraft data set)						Z	
Corrected Longitudinal C of G from WKD (Xa/Cos Aircraft angle)-(Z X Tan Aircraft angle)						<u>x2</u>	
Corrected as Weighed Longitudinal C of C from CC Datum = v2 + P						В	
Corrected as vveigned Longitudinal C of G from CG Datum = X2 + B						X	
Aircraft Longitudinal Moment as Weighed = $(W) \times (x)$						(X)	
Basic vveight of Aircraft = (VV) plus deficiences, minus surpluses						BW	
Basic Moment = (m(x)) plus deficiences, minus surpluses						BIM(X)	
Distance of C of G	from ·	A/C	* Datum in Basic V	Veight Condition =	(BM(X))	x	
			Batamin Babie V	Volgne Contaition	(BW)	^	
			Lateral Ca	liculations			
Centre Line Outer	Main U/C Whe	eel to Aircraft Ce	ntre Line: (g figure	taken from Aircraft da	ata set)	g	
Centre Line Inner Main U/C Wheel to Aircraft Centre Line: (h figure taken from Aircraft data set)						h	
Centre Line Pt & Stbd Nose Wheel to Aircraft Centre Line: (j figure taken from Aircraft data set)						j	
Aircraft Lateral C of G = (((Wt1pt*j)*-1)+(Wt1stbd*i)+((W 1*h)*-1)+((W2*a)*-1)+(W3*h)+(W4*a))/w						va	
Aircraft Lateral out of level angle as a decimal							
Corrected Lateral C of C from A/C Contro Line (va/Cee Aircraft angle) (7 v Ten Aircraft angle)							
Corrected Lateral C of G from A/C Centre Line (ya/Cos Aircraft angle)-(Z X Ian Aircraft angle)							
Aircraft Moment as Weighed = (W) x (y) Note: (+ If C of G Stbd of Datum, - If C of G Pt of Datum)						m(y)	
Basic Weight of Aircraft = (W) plus deficiences, minus surpluses						BW	
Basic Moment = (m(y)) plus deficiences, minus surpluses						BM(Y)	
Distance of 0 of 0	from		* Dotume im D = -:	Noight Condition	(BM(Y))	v	
Ustance of C of G	from :	A/U	Datum in Basic V	veignt Condition =	(BW)	T I	
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