



# **ATTACHMENT 7**

**AIRWORTHINESS GROUP CHAIRMAN'S FACTUAL REPORT**

**DCA12FA024**

**Weight and Balance Record for N5748M**

**(3 pages)**

N5748M  
**FORM B**

FORM B - AIRCRAFT WEIGHING RECORD						3 - POINT (TAIL)					
DATE WEIGHED		2010/04/05		MODEL/DESIGN		BELL 214 ST		SERIAL NUMBER 28102 N5748M			
PLACE WEIGHED		Moyock, NC.		TECHNICIAN		DUTY PHONE					
REACTION	SCALE READING	CORRECTIONS	NET WEIGHT	HOR. ARM	HOR. MOM	LAT. ARM	LAT. MOM				
LEFT MAIN	419.0		419.0	133.52	55944.9						
RIGHT MAIN	3655.3		3655.3	133.52	488055.7						
TAIL	6322.8		6322.8	316.58	2001672.0						
<b>TOTALS</b>		<b>10397.1</b>	<b>10397.1</b>	<b>244.84</b>	<b>2545672.6</b>						
<b>HORIZONTAL MEASUREMENTS</b>											
B = _____	Distance from the jlg point to the center line of the main reactions										
I = _____	Distance from the reference datum line to the jlg point										
E = <u>133.52</u>	Distance from the reference datum line to the center line of the main reactions										
D = _____	Distance between the main and the tail reaction										
F = <u>316.58</u>	Distance from the reference datum line to the center line of the tail reaction										
<b>LATERAL MEASUREMENTS</b>											
LM = _____	Distance from the lateral reference datum line to the Left Main reaction										
RM = _____	Distance from the lateral reference datum line to the Right Main reaction										
NT = _____	Distance from the lateral reference datum line to the Tail reaction										
ADJUSTMENTS			NET WEIGHT	H. ARM	H. MOMENT	L. ARM	L. MOMENT				
Level Weigh - No Correction											
Total (As Weighed Above)			10397.1	244.84	2545672.6						
Total of Column I (page 2)			-								
Total of Column II (page 2)			+	48.0	27600.0						
<b>BASIC AIRCRAFT</b>			<b>10445.1</b>	<b>246.36</b>	<b>2573272.6</b>						
<b>SIMPLIFIED HORIZONTAL MOMENT</b>			<b>25732.7</b>	<b>SIMPLIFIED LATERAL MOMENT</b>		<b>CONSTANT</b>		<b>100</b>			
SCALE				CORRECTIONS							
SCALE TYPE: VISHAY  SERIAL NUMBER: 1028G4  CALIBRATION ACCURACY:  CALIBRATION DATE: 2009/12/11				REACTION	CALIB	SCALE	TEMP	EQUIP	OTHER	TOTAL	
				LEFT MAIN							
				RIGHT MAIN							
				TAIL							
<b>REACTIONS USED</b>											
<b>REMARKS</b>											

N5748M

COLUMN I					
Items Weighed But Not Part of Basic Weight	WEIGHT	HOR. ARM	HOR. MOM	LAT. ARM	LAT. MOM
TOTAL of Items Weighed But Not Part of Basic Weight					
COLUMN II					
Basic Weight Items Not in Aircraft When Weighed	WEIGHT	HOR. ARM	HOR. MOM	LAT. ARM	LAT. MOM
Ballast	48.0	575.00	27600.0		
TOTAL Basic Weight Items Not in Aircraft When Weighed	48.0	575.00	27600.0		

**N5748M**  
**CHART C - BASIC WEIGHT AND BALANCE RECORD**

MDS: BELL 214 ST

SERIAL NO: 28102 N5748M

CONSTANT: 100

Date	Act.	Item Number	Description	Weight	H. Arm	H. Moment (Simp)	Basic Weight	Basic H. Arm	Basic H. Moment (Simp)
2010/04/07	I		Calculated Weight and Moment per Inventory Completed at PAW, Moyock, NC						
2010/04/05	W		BASIC A/C, WEIGHED AT : Moyock, NC.	10445.1	246.36	25732.7	10445.1	246.36	25732.7

H = Header  
 A = Addition  
 S = 180 Day  
 I = Inventory  
 R = Removal  
 W = Weighing

Certified Copy As Of 2011/05/02

Weight & Balance Technician