

BASIC WEIGHT AND BALANCE RECORD

MODEL: Bell 407 **Serial. No.** 53959 **REGISTRATION NUMBER** N4618C **Page No.** 1

DATE	Items Removed/Installed		DESCRIPTION OR MODIFICATION	LOADING CHANGE			BASIC EMPTY WEIGHT MOMENT & CG					SIGNATURE (4)
	IN (1)	OUT (2)		WEIGHT (3) (lbs)	LONG STA CG (in)	LAT STA CG (in)	WEIGHT (lbs)	LONG STA CG (in)	LONG MOMENT (lbs in)	LAT CG (in)	LAT MOMENT (lbs in)	
13-Apr-10			ACTUAL WEIGHT & BALANCE (See Page 3)				2793.8	131.8	368347	0.1	370	
8/20/10			PHYSICAL REWEIGHT				3219.0	130.81	421069.8	-0.5	-824.2	

Note: (1) IN = installed component Note: (2) OUT = removed component Note: (3) Weight of an installed component is positive (+) Weight of a removed component is negative (-)
 Note: (4) The signee has ensured revised EW & CG is within the Empty Weight Envelope.

WEIGHING SHEET			W.O. NO.: HF53959030510		
AIRCRAFT TYPE: 407		S/N: 53959		DATE: 20 AUG 2010	
SCALE TYPE AND MAKE: EVERGREEN WEIGH SYSTEM					
WEIGHING POINTS	WT. lb	TARE	NET WEIGHT	ARM in	MOMENT in lb
FWD L/H POINT	821	0.00	821.00		
FWD R/H POINT	772	0.00	772.00		
AFT POINT	1626	0.00	1626.00	204.92	333199.92
TOTAL OF FWD POINTS			1593.0	55.16	87869.88
(LAT) FWD L/H POINT			821.00	-16.82	-13809.22
(LAT) FWD R/H POINT			772.00	16.82	12985.04
USEABLE FUEL			0.0	4320.5	0.00
LONG. - TOTAL			3219.0	130.81	421069.8
LAT - TOTAL			1593.0	-0.5	-824.2
YEAR OF MANUF.: 2009		MA	EQUIP. LIST DATE: 20 AUG 2010		
SIGNATURE: [REDACTED]		REPAIR STA. HDNR610E			
WEIGHING CONFIGURATION; [REDACTED] EMPTY FUEL, FULL OILS, EMS CONFIGURATION. SEE REQUIRED & OPTIONAL EQUIPMENT LISTS DATED 20 AUG 2010. SEE AVIONICS & OPT EQUIPMENT LIST DATED 20 AUG 2010.					



A Textron Company

Actual Weight and Balance Record - Model 407

Date: ~~19 Apr 10~~
Reg. N°: N4618C

AUG 20 2010

Serial N°: 53959

Equipment List - Required Equipment Installed

Part Number	Item Description	Weight	Long. Arm	Lateral Arm
Indicators:				
206-070-263-101	Altimeter	1.4	37.0	11.3
206-075-725-103	Airspeed	0.9	38.0	4.3
407-375-001-107	MGT	0.8	37.1	1.3
407-375-002-105	Gas Producer Tachometer	0.9	37.4	1.3
407-375-003-109	Engine Torque	0.9	38.0	1.3
407-375-004-103	Engine Oil Pressure & Temp.	0.8	39.7	1.2
407-375-005-103	Transmission Oil Pressure & Temp.	0.8	37.6	-1.3
407-375-006-103	Fuel Quantity	0.8	37.4	-1.3
407-375-007-107	Fuel Pressure & Ammeter	0.9	37.1	-1.3
407-375-008-111	Dual Tachometer	2.7	37.2	4.3
407-375-015-111	Master Caution Panel	2.1	39.1	3.5
H321FDM	Attitude	3.2	35.9	7.5
843-67-6-R	Vertical Speed	1.5	37.2	11.2
C2300L4-24B	Standby Compass	0.6	33.5	22.9
M803B-2-0/5V-BATT	Clock / OAT / Voltmeter	0.3	36.9	-1.3

Note: Equipment installed by Edwards & Associates is indicated by "E"

continued.../



A Textron Company

Actual Weight and Balance Record - Model 407

Date: ~~12 Apr 10~~ **AUG 20 2010**
 Reg. N°: N4618C

Serial N°: 53959

Equipment List - Required Equipment Installed

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Part Number	Item Description	Weight	Long. Arm	Lateral Arm	
Equipment:					
206-062-200-113	Starter / Generator	20.7	165.8	6.5	
31908-001	Battery	60.6	15.8	1.0	
01-0770019-21	Anti-Collision Light	0.3	392.0	7.0	
4596	Lamp, Landing Light (2)	0.9	14.0	1.0	
01-0770062-03	Power Supply	1.5	185.8	11.2	
Position Lights:					
B3307-10	Forward LH	0.3	63.3	-17.0	
B3307-8	Forward RH	0.3	63.3	17.0	
AN3033-12	Aft LH	0.3	306.0	-39.4	
AN3033-13	Aft RH	0.3	306.0	39.4	
A2064-1683	Tail	0.2	398.6	0.0	
90-004-4	Map Light	0.6	78.0	0.0	
600W	Fire Extinguisher, Hand Type	1.6	75.0	0.0	
BHT-407-FM-1	Flight Manual	1.7	37.0	-24.0	
1431311-3	First Aid Kit	1.8	91.0	15.0	
Seat Belts:					
222-320-823-130	Pilot	2.2	70.0	12.0	E
222-320-823-129	Forward Passenger	2.2	70.0	12.0	E
407-370-721-105	Mid Passenger LH	1.9	87.0	15.0	E
407-370-721-105	Mid Passenger RH	1.9	87.0	15.0	E
407-370-720-101	Aft Passenger LH	1.9	138.0	-17.0	E
407-370-721-103	Aft Passenger Centre	1.7	138.0	0.0	E
407-370-720-101	Aft Passenger RH	1.9	138.0	17.0	E

Note: Equipment installed by Edwards & Associates is indicated by "E"



A Textron Company

Actual Weight and Balance Record - Model 407

Date: 13-Apr-10 **AUG 20 2010**
 Reg. N^o: N4618C

Serial N^o: 53959

Equipment List - Optional Equipment Installed

Part Number	Item Description	Weight	Long. Arm	Lateral Arm	
206-706-341-125	Cargo Hook Provisions	3.5	99.9	-3.9	E
206-706-341-141	Cargo Hook	10.4	121.0	0.0	E
407-705-601-109	Interior - Standard	69.5	109.4	-0.2	E
407-705-603-101	Soundproofing - Standard	5.8	114.0	0.0	E
407-705-604-109	Headliner	8.9	113.6	0.0	E
407-705-605-101	Armrests - Standard	6.9	112.2	0.0	E
407-705-701-111	Seats - Standard	88.7	98.9	0.6	E
407-706-003-105	Flight Instruments - DG	3.7	37.6	7.2	E
407-706-003-115	Flight Instruments - AI & TS	5.5	38.0	7.9	E
407-706-004-101	26Ah Battery	61.3	15.8	1.0	
407-706-007-105	High Skid Gear	89.7	115.6	0.0	
407-706-020-103	Max Gross Weight	0.0	51.0	4.0	E
407-706-024-105	Main Rotor, Frahm/Gover	52.2	122.2	0.7	
407-706-301-103	Sliding Windows	12.1	123.1	0.0	
407-706-031-159	Litter Provisions	9.1	101.4	13.4	E
407-706-702-113	Dual Controls	12.5	48.6	13.3	
407-326-003	FliteSteps STC SH1322SO FliteSteps modified by 407-899-400-101(Egress Tool)	29.0	113.5	0.0	

Note: Equipment installed by Edwards & Associates is indicated by "E".

Note: Equipment listed above was installed when helicopter was weighed, except as indicated by (*), or partially installed as indicated by (#)

Metro Aviation, Inc.

Options Equipment List

Model	Bell 407
Serial No.	53959
Registration	N445MT
Date	20-Aug-10

OPTIONS

Item	Manufacturer	Type Number	Part Number	Description	Weight	Arm	Moment	Installed
1	Air Comm	STC	407EC-202-2	Air Conditioner	105.5	126.9	13383.0	x
2	Air Comm	STC	407H-500-1	Bleed Air Heat	-	-	-	x
3	Air Comm	STC	407H-201-2	Chin Bubble Defroster	-	-	-	x
4	Aerospace Filtration	STC	106201-103	Barrier Filter Kit	-	-	-	x
5	Paravion Tech.	STC		Snow Deflectors	-	-	-	
6	Bristol Aerospace	STC		Wire Strike Prot Sys	-	-	-	x
7	Concorde	STC	RG407A1	Lead Acid Battery	-	-	-	x
8	Aero Acc	STC	407-824-001	SX-5 Quick Mount	-	-	-	
9	Spectrolab	STC	024711-31	Search Light	-	-	-	
10	Spectrolab	STC	032347	"J" Box	-	-	-	
11	Spectrolab	STC	030040-21	Gimbal	-	-	-	
12	ASU	STC	407-53959-012	NVIS System	-	-	-	x
13	MedTrans	STC	400010	Medical Panel	-	-	-	x
14	MedTrans	STC	400011	Equipment Rack	-	-	-	x
15	Life Port	STC	100-4962-02	Upper Deck Assy	-	-	-	x
16	Life Port	STC	32010-03	Trolley Assy	-	-	-	x
17	Life Port	STC	100-4550-01	Bottom Deck Assy	-	-	-	x
18	Life Port	STC	FBI-005-02	Blackout Curtain	-	-	-	x
19	Life Port	STC	100-4726-01	Pilot Barrier	-	-	-	x
20	Life Port	STC	RS2-003-03	Aerosled VF	-	-	-	x
21	Life Port	STC	FB2-051-03-72	Mattress	-	-	-	x
22	Life Port	STC	OX1-007	Portable O2 Bottle Rack	-	-	-	x
23	Aeronautical Acces.	STC	407-881-002	Console Assy	-	-	-	x
24	Aeronautical Acces.	STC	407-511-101	Crew Door L/H	-	-	-	x
25	Aeronautical Acces.	STC	407-511-102	Crew Door R/H	-	-	-	x
26	Aeronautical Acces.	STC	407-512-101	Passenger Door L/H	-	-	-	x
27	Aeronautical Acces.	STC	407-512-102	Passenger Door R/H	-	-	-	x
28	Aeronautical Acces.	STC	206-510-214	Baggage Door	-	-	-	x
29	Aeronautical Acces.	STC	427-927-001	Cyclic Cover	-	-	-	x
30	Aeronautical Acces.	STC	407-929-001	Collective Cover	-	-	-	x
31	Aeronautical Acces.	STC	206-928-200	Tail Rotor Pedal Lockout	-	-	-	x
32	Aeronautical Acces.	STC	407-536-101	Folding Maint Step L/H	-	-	-	x
33	Aeronautical Acces.	STC	407-536-102	Folding Maint Step R/H	-	-	-	x
34	Aeronautical Acces.	STC	407-531-002	Pre-Flight Two Step Kit	-	-	-	x
35	MAI	Field Appr	407M-185	Scene Lights	-	-	-	x
36	MAI	Field Appr	407M-110	Shoreline Plug	-	-	-	x
37	MAI	Field Appr	407M-129	Misc Eq Mt Install	-	-	-	x
38	MAI	Field Appr	407M-130	Equip Mt Track	-	-	-	x
39	MAI	Field Appr	407M-134	Console Assy	-	-	-	x
40	MAI	Field Appr	407M-500	Audio Console & Lt Box	-	-	-	x
41	AMC	Field Appr	189-1121	Equip Mt Shelf	-	-	-	
42	Bell	TC		Dual Controls	-	-	-	
43	Bell	TC		Co-Pilot Seat	-	-	-	
44	Aeronautical Acces.	STC	407-805-501	NightScanner	-	-	-	x
45	Aeronautical Acces.	STC	407-460-001	Spacemaker	-	-	-	x

Metro Aviation, Inc. Avionics Equipment List

Model Bell 407
Serial No. 53959
Registration N445MT
Date AUG 20 2010

em	Manufacturer	Type Number	Part Number	Description	Weight (Lb)	Arm (In)	Moment (Lb-In)	Installed
	Garmin	GNS-530W	011-01064-00	#1 GPS/Nav/Com	7.0	40.0	280.0	x
	Comant		CI420-420	GPS/XM Antenna	0.3	83.0	24.9	x
	Comant		CI-122	Com Antenna	0.5	78.0	39.0	x
	Comant		CI-1125	Nav Splitter	0.3	46.0	13.8	x
	Comant		CI-205-3	NAV Antenna	1.8	204.9	368.8	x
	Garmin	GNS-430W	011-01060-00	#2 GPS/Nav/Com	5.1	43.0	219.3	x
	Comant		CI-420-220	GPS Antenna	0.3	77.0	23.1	x
	Comant		CI-122	Com Antenna	0.5	111.0	105.5	x
	Garmin	GTX-330	011-00455-00	Transponder	3.4	45.0	153.0	x
0	Comant		CI-105-16	Transponder Antenna	0.3	65.0	19.5	x
1	Sandia		SAE5-35	Altitude Encoder	0.7	57.5	40.3	x
2	Honeywell	KR-22	066-01065-0000	Marker Beacon	0.4	38.0	15.2	x
3	Comant		CI-102	Marker Antenna	0.6	26.0	15.6	x
4	LoneStar		CRB-122253	Cooling Fan	0.8	24.0	19.2	x
5	L3 Communications	AIM 1200	504-0121-923	Attitude Gyro	3.1	37.0	114.7	x
6	Mid Continent		5550-8340N5L	T&B Gyro	1.4	38.0	53.2	x
7	Honeywell	KI-525A	066-03046-0007	HSI Indicator	3.4	37.0	125.8	x
8	Honeywell	KG-102A	060-00015-0000	Compass Gyro	4.3	159.0	683.7	x
9	Honeywell	KA-51B	071-01242-0001	Slave Switch	0.2	39.5	7.9	x
0	Honeywell	KMT-112	071-00152-0000	Flux Gate	0.3	216.0	64.8	x
1	NAT		RS24-020	Nav Data Relay	0.6	57.5	34.5	x
2	Free Flight		TRI-40	Radio Altimeter Indicator	0.8	39.0	31.2	x
3	Free Flight		TRA-3000	Radio Altimeter RTA	1.5	65.0	97.5	x
4	Garmin	GDL-69	011-00986-00	XM Data Link Receiver	1.8	159.0	286.2	x
5	Honeywell	MK-XXI	066-08256-0004	EGPWS Processor	1.5	66.5	99.8	x
6	Mid Continent		MD41-1368	EGPWS Switch/Ann	0.5	39.0	19.5	x
7	Artex	C406-NHM	453-5061	ELT Transmitter	3.2	166.0	531.2	x
8	Artex		345-6196-04	ELT Switch	0.2	38.0	7.6	x
9	Artex		110-338	ELT Antenna	0.5	91.0	45.5	x
0	NAT		AA95-728NVG	Pilot Audio Panel	2.0	40.0	80.0	x
1	NAT		AMS-44NVG	Medical Audio Panel	2.0	96.0	192.0	x
2	Technisonic	TDFM-6158	011210-3-6158-P404NV	FM Transceiver	3.0	37.0	111.0	x
3	Technisonic	RC-6000NV	21213-2	FM Remote Control	1.2	99.0	118.8	x
4	Comant		CI-275-5	UHF Antenna	0.5	171.0	85.5	x
5	Comant		CI-292-3	VHF Antenna	0.5	171.0	85.5	x
6	Comant		CI-306	800Mhz Antenna	0.2	100.0	20.0	x
7	EMN		T41E45	Flight Timer	0.2	50.0	10.0	x
8	Sky Trac		ISAT-100	Data Position Comm	5.1	159.0	810.9	x
9	Sky Trac		STS-ISAT-ANT	Iridium/GPS Antenna	0.5	83.0	41.5	x
0	Sky Trac		DVI-250AP	Dispatch Voice Interface	0.6	96.0	57.6	x
1								
2								
3								
4								
5								